



Certified Mail #:

December 23, 2014

Mr. James Justice
United States Environmental Protection Agency
Region 5
25063 Center Ridge Road
Westlake, Ohio 44145

RE: STATOIL USA ONSHORE PROPERTIES, LLC
EISENBARTH GAS WELL PAD CONSENT ORDER
DRAFT WORK PLAN

Dear Mr. Justice:

Statoil USA Onshore Properties, LLC (Statoil) is issuing this response pertaining to the draft work plan for remedial actions at the Eisenbath Gas Well Pad to the United States Environmental Protection Agency (US EPA).

Per your letter dated December 10, 2014, the following requests have been addressed in the documentation provided herein:

GENERAL COMMENTS/REVISIONS:

1. *Please include the most recent version of the “Environmental Sampling and Analysis Plan” and “Water, Soil, and Sediment Sampling and Analysis Adjustment Plan” as an attachment to the Work Plan.*

Appendix A of the attached plan is Version 1.7 of the Environmental Sampling and Analysis Plan for the Ohio Operations Incident in Hannibal, Ohio (Eisenbath), dated July 17, 2014.

Appendix B of the attached plan is the July 17, 2014 Water, Soil, and Sediment Sampling and Analysis Plan prepared for the Ohio Operations Incident in Hannibal, Ohio (Eisenbath), Version 1.0. Also included in Appendix B is Amendment #1 to Version 1.0, which clarifies the sampling locations and frequencies that were outlined in the original Water, Soil, and Sediment Sampling and Analysis Plan.

2. *Please prepare and include an updated summary of all analytical results for water and sediment samples collected to date from areas downstream of the Eisenbath Well Pad and background samples separated by location. It may be useful to organize the data summaries to match the sections in the Work Plan with references to maps and figures or graphs to highlight changes over time.*

Appendix C contains data tables for Water and Sediment Samples collected and analyzed up to November 20, 2014. Sample data is categorized into two sub-appendices, with APPENDIX C.1 containing water sample data, and APPENDIX C.2 containing sediment sample data. This data is further divided by sample location and subsequently organized by ascending date.

Method Target Compounds are listed separately from Method Tentatively Identified Compounds (TICs).



3. *For any additional sampling not covered by previously approved plans, U.S. EPA will need to see and approve a specific sampling plan, an addendum or include the specifics in the revisions to this plan. The QAPP will need to be modified to account for any new methods.*

All sampling procedures and modifications are outlined in the attached documentation for US EPA review and approval. All proposed locations and frequencies for future sampling and monitoring are outlined in their respective sections, most notably in the WET and WST sections of the plan and their associated APPENDICES.

If any modifications are to be implemented, the QAAP will be altered to reflect the changes.

4. *U.S. EPA would prefer to have any sampling conducted under this plan after remediation of the well pad is complete but would consider proposals to sample before that time given that the Eisenbath Pad is isolated from the surface waters.*

Well pad sampling activities that are being conducted under the ODNR Sampling and Analysis Plan (noted above) are anticipated to be completed on December 23, 2014. Full site remediation is expected to be completed at end of first quarter 2015. Statoil proposes that the next phase of sampling be allowed to commence before the full remediation of the Eisenbath well pad. Eisenbath has been isolated from the surface waters of the adjacent watershed since berms were installed on July 1, 2014.

5. *Please include statement that Statoil can petition to discontinue sampling and that will be reviewed by the OSC on a case by case basis taking into account available data, site conditions and available information.*

Statoil, at any time, can petition the OSC of the US EPA to discontinue sampling. Requests to discontinue sampling will be evaluated in the context of all available data, site conditions, and available information. This request has been included in the narrative of the Draft Work Plan on page 4, for US EPA review.

Statoil is currently adhering to the WSSAAP reviewed by the federal OSC on July 17, 2014. Statoil proposes to the US EPA that, within three days of the approval by the US EPA of this Work Plan, Statoil may discontinue sampling activities under the WSSAAP in lieu of the plan of action described herein.

WORK PLAN:

Section 15.a.i, Surface Run-off:

1. *Please identify specific locations.*

The sampling and monitoring locations have been clarified in the text, and a table (Table 3) summarizing the Location ID, Coordinates, and a brief Location Description has been included on page 5 of the Work Plan narrative. This table is intended to associate with the Figures found following the Draft Work Plan. Historic monitoring locations, as well the potential surface water runoff pathway from the Eisenbath gas well pad (Figure 5), are provided.

The mapping with the surface flow direction from the Eisenbath well pad is located immediately following the text of the Draft Work Plan.

2. *Please verify sample locations. Please include in Figure 1 and the data summary the locations of any samples of ponded water that were collected from puddles on road south of the pad. This sampling*



is referenced in the Soil Migration Section.

The sampling and monitoring locations have been clarified in the text, and a table (Table 3) summarizing the Surface Water Location ID, Coordinates, and a brief Location Description has been included on page 5 of the Work Plan narrative. This table provides reference to figures found in the Draft Work plan itself as well as in Appendix B, “Water, Soil, and Sediment Sampling and Analysis Plan”, for current and ongoing monitoring locations. Historic monitoring locations are provided with the Reference Documents in Appendix D.

Surface water samples collected that were associated with the pad are identified in Table 3 and on the figures with a “PD” designation.

Section 15.a.i, Subsurface Run-off:

1. *Plan refers to six “drains” in Figure 2 while the figure has them labeled “Outfalls.” Adjust text to match Figure.*

Statoil has adjusted the text and figures to match and will henceforth refer to these locations as “outfalls”.

2. *Plan states two drains (outfalls) are not associated with the pad or slope drainage. Please provide explanation and information on how this was evaluated.*

According to various Statoil representatives as well as on-site engineers that were on site during the initial event and that were observing the area of impact, the outfall to the far west of the Eisenbarth pad Outfall 2 (Figure 2; Appendix D) was determined to not be associated with any well pad drainage. A camera with video capabilities was used to track the location of Outfall 2 piping. The camera showed that the piping was broken prior to reaching the end point of the conveyance. The outfall farthest east (Figure 2) is associated with the Williams Companies operation that is adjacent to the Eisenbarth pad.

Of the outfalls presented on Figure 2, only three (3) had flow at any time during monitoring, and those locations are associated with Sample Location IDs as follows.

General Identifier	Sample Location
Outfall 1	PD07
Outfall 2	SW24
Outfall 5	PD03

3. *There is no discussion of the continuous flow observed in some of the drains that were previously believed to be coming from up gradient of the Well Pad. Please include any additional information on the evaluation of the water source.*

The outfalls that appeared to have continuous flow without correlating rainfall were determined to be connected to the subsurface drainage and sump system that was installed under the Eisenbarth Well Pad. This drainage system was installed at the pad location in order to control the flow of water in the event that the pad was inundated with a substantial rainfall event over a short period of time. Due to a previous slope slip at the location, site engineers installed the subsurface drainage system to prevent saturation and to mitigate the potential for future slips. (Figure 2).

Section 15.a.i, Soil Migration:

1. Please remove “may have” from “... chemicals may have spilled onto the ground ... ” from first sentence.

The phrase has been removed from section 15.a.i per the US EPA guidance.

2. In Figure 3, please denote which locations had piezometers installed and include key for SS, GP, TP, etc.

In order to provide clarity, the Draft Work Plan has been amended to include Table 4, which summarizes the Soil Sample Location ID and the Depth of each of the Soil Sample Locations. The denotations of SS, GP, and TP have been defined in the text and on the mapping as Soil Samples, Geo-Probe boreholes, and Test Pits, and are referenced to the appropriate figures. The summary of soil monitoring locations that were drilled, which locations had detectable groundwater, and which were developed into piezometers is also included in the narrative.

3. Please include brief description of depth of subsurface sample locations.

Table 4, found in the 15.a.i. Soil Migration portion of the Draft Work Plan, identifies the Soil Sample Locations as well as their respective depths. This table can be referenced to CTEH’s Figure 3 in the Draft Work Plan, and can also be found in APPENDIX D.

4. Please include brief discussion on piezometers location selection.

Piezometer locations were initially identified on the south and west downhill slopes of the Eisenbarth pad based on pad topography. Piezometers were installed to assess any potential subsurface water migration from the Eisenbarth pad. Piezometer locations were dependent primarily on the availability of groundwater; of the eleven direct push locations, nine were able to be evaluated for groundwater. Of those nine, groundwater was detected and piezometers were able to be installed for routine use at five of the locations.

Section 15.a.i, Proposed future actions for 15.a.i:

1. In order to evaluate whether additional sampling and assessment of the above pathways is needed, U.S. EPA needs to evaluate the proposed report summarizing the data collected. Additional information related to the evaluation of the two drains/outfalls not part of the pad or slope drainage will also need to be included per above comments.

All data collected and analyzed up to the date of this compilation is included for review in APPENDIX C, and summary graphs are provided behind the data set to show trends in particular constituents of concern. All of the potential discharge from the pad surface is currently contained and the pad does not have any runoff leaving the location, either through surface flow or through subsurface drains. Statoil is presenting the previously collected sample data to the US EPA for review (APPENDIX C), and will use this data to determine the migration pathway in a comprehensive analysis that evaluates all three pathways.

Section 15.a.ii:

1. Please include a copy of the method used to analyze for TTPC as part of Work Plan.

At this time, no US EPA Method exists for the analysis of TTPC, a compound which comprises up to



10% (w/w) of the biocide BE-9. An accredited lab (G-Cal) developed a High Performance Liquid Chromatography-Ultraviolet (HPLC-UV) analytical method for TTPC which was validated by third-party EDataPro, and thus sampling was initiated on July 4, 2014. The US EPA has since suggested the use of a Liquid Chromatography/Mass Spectrometry/Mass (LC/MS/MS) method for TTPC detection, which was also verified by EDataPro prior to use. This information is now included in 15.a.ii of the Draft Work Plan and a copy of the laboratory Standard Operating Procedure for the methods are included in APPENDIX D.

The US EPA recommended LC/MS/MS method will hereafter be utilized as the primary method for all TTPC analysis, with the HPLC-UV method being used additionally for result confirmation and data quality verification as needed.

Section 15.a.ii, Proposed future actions for 15.a.ii:

1. *In order to determine if it is appropriate to discontinue sampling of surface waters and sediments, U.S. EPA needs to evaluate the proposed report summarizing the data collected.*

Statoil is presenting all previously collected sample data associated with the surface waters and sediments to the US EPA for review in APPENDIX C. Based on all accumulated data, Statoil believes that adequate surface water and sediment samples have been obtained for this evaluation, and proposes that the current three (3) day rotation of sampling and monitoring of eleven (11) active surface waters and sediment sampling locations be allowed to cease within three days of approval by the US EPA of the Draft Work Plan. The parameters of concern have all consistently and without exception Non-Detect (ND) or below associated Safe Drinking Water Standards (DWS) for considerable time.

Table 5 in the Draft Work Plan summarizes the analytes, the analysis methods and implied action limits, and the time elapsed since a limit exceedance. At the time of this submittal, all parameters of concern had been ND or *de minimus* for a minimum of 113 consecutive days.

2. *Additionally, U.S. EPA requests at least three more sampling events to evaluate surface waters and sediments in the unnamed tributary and Opossum Creek. Sample locations should include at least one background sample and possibly a second from a separate watershed.*

- a) *One sampling event immediately following a significant rain event.*
- b) *One sampling event following at least 3 days of dry weather.*
- c) *One sampling event in spring 2015 to assess attenuation, migration, etc.*

As per US EPA guidance, Statoil will conduct three more sampling events of the eleven remaining locations to evaluate the surface waters and sediments of the unnamed tributary and of Opossum Creek. This includes six locations associated with the unnamed tributary to Opossum Creek, one location along Opossum Creek, and one location at the confluence of Opossum Creek with the Ohio River. Additionally, one background sample location will be established on a non-impacted unnamed tributary to Opossum creek, and one background sample location will be established in the Sunfish Creek watershed. These three sampling events will follow the US EPA recommended schedule described in a, b, and c, above.

3. *Please indicate what TTPC analytical method will be used for analysis of additional samples.*

The US EPA has recommended the LC/MS/MS method for TTPC, which will be utilized as the standard



for all future TTPC sampling and analysis. The HPLC-UV method will be used additionally for result confirmation and data quality verification as needed.

Section 15.a.iii:

1. *In the last sentence of the second paragraph, remove the reference to water quality returning to pre-event conditions or present data used to make this statement.*

This language has been removed from the Draft Work Plan.

Section 15.a.iii, Proposed future actions for 15.a.iii:

1. *Please include a proposal for WET testing of collected water after remediation of the well pad is complete.*

APPENDIX E contains a proposal and scope for Whole Effluent Toxicity (WET) testing to be conducted on water samples collected from pad drainage by Moody and submitted to American Aquatic Testing, Inc. for testing and analysis. WET testing would be conducted following remediation of the site, using standard operating procedures provided.

2. *Please include specifics on biological assessment, i.e. number of locations, methodology, etc.*
 - a) *U.S. EPA recommends two sampling events: one this year and one next year for comparative purposes.*
 - b) *U.S. EPA recommends including benthic macroinvertebrates as part of the biological assessment.*
 - c) *U.S. EPA recommends using methods and sample locations utilized by OEPA for comparison to historical data. These can be found in OEPA's November 2010 Report "Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries"*

Pursuant to these guidance provided by the US EPA, Statoil has included APPENDIX F for review, which summarizes a biological assessment program. The program would mimic the methodology and sample locations utilized in the 2010 report program. Based on biological screening protocol as well as the 2010 report methods, Statoil would begin the two-phase sampling schedule during the Ohio Environmental Protection Agency (OEPA) recommended summer season (June through October) of 2015, then again the following year of the same time frame. This would ensure consistency with the OEPA 2010 program.

3. *U.S. EPA recommends Whole Sediment Toxicity Testing be conducted at 2-3 locations with one potentially being a background location and the others including locations where TTPC was observed in Opossum Creek and/or the unnamed tributary to Opossum Creek at the highest concentrations.*

Statoil agrees with the US EPA recommendation, and has outlined a WET testing procedure at the locations which had the highest laboratory detections of TTPC; SW21 and SW04. Please see Table 6 in the Draft Work plan for a summary of TTPC detections in sediment and water samples. As recommended, a control sample location will also be established in the Sunfish Creek watershed that will be selected in the field, in order to choose a location that will mimic the natural stream conditions of SW21 and SW04, to minimize any natural variance that may influence the results of the testing.



Details descriptions of the comments addressed within the letter are provided within the Draft Work Plan and the referenced Appendices. If you have any questions, please do not hesitate to call Kristy Bellows or Steve Tink of Statoil at (724) 746-5200.

Sincerely,

Mr. Steve Tink
Marcellus Safety and Sustainability Unit Leader



Statoil Eisenbath Well Pad Site

December 23, 2014

Revision 1.0

Prepared by:



Moody and Associates, Inc.

On behalf of:



StatOil USA Onshore Properties, Inc.



The following is a revision of the draft Work Plan for actions required of Statoil USA Onshore Properties, Inc. (Statoil) (by Paragraph 15.a. and 15.b. of the *Statoil Eisenbarth Well Pad Site Administrative Settlement Agreement*, effective August 20, 2014) that was submitted to the United States Environmental Protection Agency (US EPA) on September 3, 2014.

This work plan incorporates and addresses the US EPA comments received by Statoil on November 12, 2014, and is sequentially arranged by settlement agreement removal actions. The plan addresses current and future monitoring, sampling and data assessment activities. Proposed future actions in relation to the Eisenbarth Gas Well Pad location are provided at the end of each section. Also included at the end of this work plan is a proposed schedule which details the date of submittal of the documentation from Statoil to the US EPA office.

Statoil gathered significant quantities of information during the monitoring, assessing and sampling that took place under the guidance of the Environmental Sampling and Analysis Plan (SAP) from June 28, 2014 to July 18, 2014. An abbreviated data set was approved by the US EPA On-Site Coordinator (OSC) on July 17, 2014, and is currently being collected under the guidance of the Water, Soil, and Sediment Sampling and Analysis Adjustment Plan (WSSAAP) from July 19, 2014 to present. The most recent versions of the SAP and the WSSAAP are included as **APPENDICES A and B**, respectively.

Table 1 and Table 2 (below) summarize the type of data collected during these two sampling phases.



Table 1

Sampling performed under the Environmental Sampling and Analysis Plan (SAP)

Analysis	Method	Number of Samples Analyzed			Date Range of Analysis	Notes
		Sediment	Soil	Water		
Volatile organic compounds (VOCs)	USEPA 8260	31	78	282	6/28/14 – 7/18/14	Examples of VOCs include acetone, benzene, toluene, xylene, and other chemicals that evaporate rapidly at room temperature.
Total petroleum hydrocarbons (TPH)/ Ethylene glycol	USEPA 8015	31	78	282	6/28/14 – 7/18/14	TPHs reported were diesel range organics: hydrocarbons in the range of C10 to C28. Ethylene glycol was analyzed using 8015 in samples collected from 7/3/14 to 7/18/14.
Anions	USEPA SM450 0	31	78	282	6/28/14 – 7/18/14	Examples of anions include chloride, cyanide, nitrate, fluoride, phosphorus, sulfide.
Semi-volatile organic compounds (SVOCs)	USEPA 8270	31	78	282	6/28/14 – 7/18/14	SVOCs include phenols and PAHs, such as 1,2,4-trichlorobenzene, anthracene, benzo(a)pyrene, naphthalene, phenol, and other chemicals that may vaporize at temperatures above room temperature.
Cations	USEPA 6010B	31	78	282	6/28/14 – 7/18/14	Examples of cations include aluminum, arsenic, calcium, chromium, iron, nickel, sodium, zinc.
Tributyl tetradecyl phosphonium chloride (TTPC)	GCAL-developed HPLC-UV method	21	78	198	7/4/14 – 7/18/14	During this time frame there was no standard method or EPA test method for TTPC.



Table 2

Sampling performed after approval of the Water, Soil, and Sediment Sampling and Analysis Adjustment Plan (WSSSAAP)

Analysis	Method	Estimated Number of Samples Analyzed			Range of Analysis	Notes
		Sediment	Soil	Water		
Volatile organic compounds (VOCs)	USEPA 8260	58	19	443	7/19/14 – Present	Only acetone was reported for samples collected after 7/20/14.
Total petroleum hydrocarbons (TPH)	USEPA 8015	58	19	443	7/19/14 – Present	TPHs reported were diesel range organics: hydrocarbons in the range of C10 to C28.
Anions	USEPA SM450 0	58	19	443	7/19/14 – Present	Only chloride was reported for samples collected after 7/18/14.
Tributyl tetradecyl phosphonium chloride (TTPC)	GCAL-developed HPLC-UV method	58	16	443	7/19/14 – Present	Statoil will utilize the US EPA suggested LC/MS/MS methodology for TTPC analysis on all future samples.

Updated summary tables of all analytical results for water and sediment samples collected to date from both areas downstream of the Eisenbarth pad and from background areas is included as **APPENDIX C**, for US EPA review. Sample data is categorized into two sub-appendices, with **APPENDIX C.1** containing water sample data, and **APPENDIX C.2** containing sediment sample data. This data is further divided by sample location and subsequently organized by ascending date.

Eisenbarth has been isolated from the surface waters of the adjacent watershed since berms were installed on July 1, 2014. Well pad sampling activities that are being conducted under the ODNR Sampling and Analysis Plan are anticipated to be completed on December 23, 2014. Full site remediation is expected to be completed at end of first quarter 2015.

Statoil proposes that the next phase of sampling be allowed to commence before the full remediation of the Eisenbarth well pad. Statoil, at any time, can petition the OSC of the US EPA



to discontinue sampling. Requests to discontinue sampling will be evaluated in the context of all available data, site conditions, and available information.

Statoil is currently adhering to the WSSSAAP reviewed by the federal OSC on July 17, 2014. Statoil proposes to the US EPA that, within three days of the approval by the US EPA of this Work Plan, Statoil may discontinue sampling activities under the WSSSAAP in lieu of the plan of action described herein.



15.a.i Monitor, sample, and assess surface and subsurface pathways by which materials released from the Eisenbath Well Pad on and after June 28, 2014, migrated to the unnamed tributary of Opossum Creek.

Statoil has monitored, sampled, and conducted preliminary assessments of three separate pathways by which materials released from Eisenbath potentially migrated to the unnamed tributary of Opossum Creek. Those pathways are surface runoff, subsurface drains and soil migration. Further discussion for each pathway is provided below. At the end of this section are the future actions that Statoil proposes to address this requirement.

Surface Run-Off

Surface run-off (generated by fire-fighting activities) was monitored beginning on June 28, 2014 as the primary pathway of concern upon initial assessment of the Eisenbath well pad situation. Pond water was used to combat the well pad fire, and while berms were being built on the Eisenbath site to contain this water the surface flow was visible discharging from the well pad into the unnamed tributary of Opossum Creek, which is located to the northwest of the pad. Since the initial run-off event the confinement berms have been completed, and thus the surface migration pathway has been effectively blocked since July 1, 2014.

Statoil has assessed the areas where surface water run-off was observed as well as background locations, and has sampled accordingly. Mapping with the surface flow direction from the Eisenbath well pad is located immediately following the text of the Draft Work Plan. These surface water sample locations are shown in Figure 1 and summarized in Table 3, below. Surface water samples collected that were associated with the pad are identified in Table 3 and on the figures with a “PD” designation.

Statoil believes that the Material Safety Data Sheet (MSDS) evaluation and the associated list of analyses, implemented by the Center for Toxicology and Environmental Health (CTEH), captured all potential constituents of concern. The total number of samples analyzed and the type of analysis for each sample is summarized in Tables 1 and 2, above.

Table 3
Surface Water Location Summary (Reference Figure 1)

Location ID	Coordinates (NAD 83) Easting, Northing	Location Description
SW01	-80.8993, 39.6975	North Side of Road to Holding Pond
SW02	-80.8983, 39.6967	Outfall of Drain Near Long Ridge Entrance
SW03	-80.8989, 39.6961	200 Yards South of Well Pad, at Creek
SW24	-80.9012, 39.6981	Outflow Pipe at NW Side of Well Pad
SW25	-80.9048, 39.6965	Drainage Pathway at Unnamed Tributary
SW21	-80.9036, 39.6943	Drainage to Unnamed Tributary West of Pad
SW19	-80.9038, 39.6941	Drainage Pathway Convergence with Unnamed Tributary
SW23	-80.9039, 39.6941	Unnamed Tributary US of Drainage Confluence



SW06	-80.9041, 39.6946	Approximate Headwaters of Unnamed Tributary
SW17	-80.9066, 39.7029	Unnamed Tributary DS of Drainage
SW18	-80.9031, 39.7102	Unnamed Tributary DS of Drainage
SW20	-80.8970, 39.7140	Opossum Creek DS of Drainage Confluence
SW12	-80.8977, 39.7147	Side Tributary to the Unnamed Tributary US of Confluence
SW11	-80.8882, 39.7108	Side tributary US of confluence with Opossum Creek
SW04	-80.8878, 39.7111	Opossum Creek DS of confluence with Unnamed Tributary
SW14	-80.8836, 39.7127	Opossum Creek DS of confluence with Unnamed Tributary
SW15	-80.8797, 39.7204	Tributary to Opossum Creek (Alum Run)
SW08	-80.8522, 39.7387	Mouth of Opossum Creek at Ohio River
SW09	-80.8404, 39.7279	Ohio River DS of Confluence with Opossum Creek
SW16	-80.8259, 39.7096	Ohio River DS of Confluence with Opossum Creek
SW10	-80.8610, 39.6687	Ohio River DS of Confluence with Opossum Creek
SW22	-80.8674, 39.7713	Ohio River US of Confluence with Opossum Creek
SW07	-80.8706, 39.7629	Ohio River US of Confluence with Opossum Creek
PD03	-80.8991, 39.6963	200 Yards Southwest and Down Gradient from Pad
PD07	-80.9005, 39.6986	Outfall Down Gradient at Northwest Corner of Pad
PD10	-80.8984, 39.6963	Sump 50 Yards West and Down Gradient of Access Road
PD 11	-80.8990, 39.6963	South and Down Gradient of PD03

Subsurface Drains and Outfalls

Figure 2 depicts the locations of the underground drainage system, catch basins, and the associated outfalls. All flow out of the outfalls has been blocked or contained since July 11, 2014. There are six (6) outfalls depicted on Figure 2, of which two (2) are not associated with pad or slope drainage; The outfall farthest east on Figure 2 is associated with a Williams Companies operation, and Outfall 2 to the far west of Figure 2 was determined through field observations of the on-site engineers to not be associated with any well pad drainage.

The outfalls that appeared to have continuous flow without correlating rainfall were determined to be connected to the subsurface drainage and sump system that was installed under the Eisenbath Well Pad. This drainage system was installed at the pad location in order to control the flow of water in the event that the pad was inundated with a substantial rainfall event over a short period of time. Due to a previous slope slip at the location, site engineers installed the subsurface drainage system to prevent saturation and to mitigate the potential for future slips. (Figure 2).

The outfalls on Figure 2 with any observable discharge have been sampled correspond to the following sample location identifiers. All other outfalls have been dry for the duration of monitoring.

<u>“General” Identifier</u>	<u>Sample Location</u>
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- Outfall 1 PD07
- Outfall 2 SW24
- Outfall 5 PD03



These outfalls and catch basins have been identified and monitored since June 28, 2014. Statoil has monitored and assessed the outfall drainage and has sampled the water from the outfalls and catch basins as deemed necessary. Sample analysis scope is summarized in Tables 1 and 2, and the quality results of subsurface drainage samples are summarized in **APPENDIX C**.

Soil Migration

Statoil has collected soil samples in several locations on and around the well pad to confirm the presence or absence of target analytes. Soil investigations were conducted using Surface Samples (SS), Geo-Probe boreholes (GP), and Test Pits (TP), depicted in Figure 3 and summarized in Table 4, below. When collected from the subsurface strata, sample depth analyzed in feet below ground surface (feet-bgs) is indicated by the numerical range at the end of the associated laboratory sample ID.

To assess subsurface soil migration, surface sample hand and track-mounted direct push sampling was performed on all sides of the well pad and in key locations on the pad. Piezometer locations were initially identified on the south and west downhill slopes of the Eisenbarth pad based on pad topography, and were installed to assess any potential subsurface water migration from the Eisenbarth pad. Eleven (11) of the direct push locations had piezometers installed to test for water flow into the core location, with nine (9) of the eleven (11) being able to be utilized for monitoring (GP01, GP02, GP05, GP08, GP09, GP19, GP21, GP23, and GP24). Of these nine (9), groundwater was detected in five (5); GP08, GP23, GP24, GP26, and GP28. The original piezometer locations as well as the five (5) viable piezometers are identified on the provided figures. The total number of samples analyzed and the type of analysis for each sample is in Tables 1 and 2, and full analytical comparisons are included in **APPENDIX C**.

Table 4

Soil Sample Summary (Reference Figure 3)

Location ID	Depth Summary (feet bgs)
SS01	Surface Sample (<1 ft bgs)
SS02	Surface Sample (<1 ft bgs)
SS03	Surface Sample (<1 ft bgs)
SS04	Surface Sample (<1 ft bgs)
SS05	Surface Sample (<1 ft bgs)
SS06	Surface Sample (<1 ft bgs)
SS07	Surface Sample (<1 ft bgs)
SS08	Surface Sample (<1 ft bgs)
SS18	Surface Sample (<1 ft bgs)
SS19	Surface Sample (<1 ft bgs)
SS21	Surface Sample (<1 ft bgs)
SS22	Surface Sample (<1 ft bgs)
SS23	Surface Sample (<1 ft bgs)
SS35	Surface Sample (<1 ft bgs)
SS38	Surface Sample (<1 ft bgs)



SS49	Surface Sample (<1 ft bgs)		
SS56	Surface Sample (<1 ft bgs)		
SS57	Surface Sample (<1 ft bgs)		
SS58	Surface Sample (<1 ft bgs)		
SS59	Surface Sample (<1 ft bgs)		
SS60	Surface Sample (<1 ft bgs)		
SS61	Surface Sample (<1 ft bgs)		
SS62	Surface Sample (<1 ft bgs)		
SS63	Surface Sample (<1 ft bgs)		
SS64	Surface Sample (<1 ft bgs)		
SS65	Surface Sample (<1 ft bgs)		
SS66	Surface Sample (<1 ft bgs)		
SS67	Surface Sample (<1 ft bgs)		
SS68	Surface Sample (<1 ft bgs)		
SS69	Surface Sample (<1 ft bgs)		
SS70	Surface Sample (<1 ft bgs)		
TP01	1 to 2	NA	NA
TP02	0 to 1	2 to 3	NA
TP03	1 to 2	NA	NA
TP04	0 to 1	NA	NA
GP01	0 to 2	8 to 10	14 to 16
GP02	0 to 2	4 to 6	12 to 14 (with duplicate)
GP05	0 to 2	24 to 26	30 to 32
GP08	0 to 2	20 to 22	24 to 26
GP09	0 to 2	8 to 10	14 to 16
GP19	0 to 2	16 to 18	21 to 23
GP21	0 to 2	16 to 18	26 to 28
GP23	2 to 4	26 to 28	36 to 38
GP24	0 to 2	16 to 18	22 to 24
GP26	2 to 4	16 to 18	26 to 27.5
GP28	0 to 2	8 to 10	10 to 11.5
GP29	0 to 2	NA	NA
GP30	0 to 2	NA	NA
GP31	0 to 2.5	NA	NA
GP32	0 to 3.5	NA	NA

Proposed future actions for 15.a.i:

Based on all available data (**APPENDIX C**), current site conditions, and available information, Statoil believes that adequate soil, sediment, and water samples have been obtained to determine the migration pathway for materials released from the Eisenbarth pad, and does not propose further sample collection. Statoil is presenting the previously collected sample data to the US EPA for review (**APPENDIX C**), and will use this data to determine the migration pathway in a comprehensive analysis that evaluates all three pathways.

It is of note that all of the potential discharge from the pad surface is currently contained and does not have any runoff leaving the location, either through surface flow or through subsurface



drains. Statoil is currently adhering to the WSSSAAP reviewed by the federal OSC on July 17, 2014. Statoil proposes to the EPA that within three days of the approval by the US EPA of the Work Plan, Statoil may discontinue sampling activities under the WSSSAAP, Section 15.a.i, in lieu of the plan of action described herein.



15.a.ii Monitor, sample, and assess surface waters and sediments of the unnamed tributary of Opossum Creek, Opossum Creek, and the portion of the Ohio River form the confluence with Opossum Creek to the first public water intake immediately downstream of the confluence for chemical constituents identified in CTEH's "Environmental Sampling and Analysis Plan, Version 1.7", reviewed by the federal and state OSCs on 7/17/2014.

Surface water and sediments of the unnamed tributary to Opossum Creek, Opossum Creek, and the Ohio River have been monitored and sampled since June 29, 2014. Initial samples for surface water were analyzed for the following:

- Volatile Organic Compounds (VOCs)
- Semi-Volatile Organic Compounds (SVOCs)
- Total Petroleum Hydrocarbons (TPHs)
- Cations
- Anions
- Ethylene Glycol

Initial samples for sediments were analyzed for:

- VOCs
- SVOCs
- TPHs
- Cations
- Anions
- Ethylene Glycol
- tri-n-butyl tetradecyl phosphonium chloride (TTPC)

Tables 1 and 2 explain the laboratory methods and the dates during which the samples were collected for the methods provided above, and Table 3 summarizes the Surface Water (SW) locations. Sediment Sampling (SE) locations mimic the locations and numbering convention of the SW locations (Figure 4).

Statoil was approved for less frequent collection and sampling once the WSSSAAP was reviewed by the federal OSC on July 17, 2014. This WSSSAAP served to, among other objectives; reduce the sampling parameters and frequency in the unnamed tributary and Opossum Creek as water quality and analytical parameters were either within normal ranges or below ecological screening values; and reduce the number of analytes tested to only include the target analytes that had been previously detected in the unnamed tributary of Opossum Creek and Opossum Creek: Acetone, Chloride, TPH, and TTPC. Monitoring stations that remain active under the current WSSSAAP are PD07, PD03, SW24, SW20, SW08, SW04, SW21, SW06, SW25, SW17, and SW18.



At this time, no US EPA Method exists for the analysis of TTPC, a compound which comprises up to 10% (w/w) of the biocide BE-9. An accredited lab (G-Cal) developed a High Performance Liquid Chromatography-Ultraviolet (HPLC-UV) analytical method for TTPC which was validated by third-party EDataPro, and thus sampling for TTPC was initiated on July 4, 2014. The US EPA has since suggested the use of a Liquid Chromatography/Mass Spectrometry/Mass (LC/MS/MS) method for TTPC detection, which was also verified by EDataPro prior to use. The LC/MS/MS method will be utilized for all future sampling and analysis. The HPLC-UV method will be used additionally for result confirmation and data quality verification as needed, and a copy of the laboratory Standard Operating Procedure for both of the methods are included in **APPENDIX D**.

Proposed future actions for 15.a.ii

Statoil is presenting the previously collected sample data (**APPENDIX C**) associated with the surface waters and sediments to the US EPA for review. Based on all accumulated data, Statoil believes that adequate surface water and sediment samples have been obtained for this evaluation, and proposes that the current three (3) day rotation of routine sampling and monitoring of eleven (11) active surface waters and sediment sampling locations be allowed to cease within three days of approval by the US EPA of the draft Work Plan. The parameters of concern at the implementation of the WSSSAAP have all consistently and without exception Non-Detect (ND) or below associated Safe Drinking Water Standards (DWS) since the following WSSSAAP-implemented dates, after July 19, 2014:

Table 5
WSSSAAP Governed Parameter Timetable

Analyte	Method	Limit	Start Date of Being Below Associated Limit for Groundwater	Approximate Time Elapsed Since Last Limit Exceedance
Acetone	EPA 8260	ND	September 2, 2014	>113 Days
Acetone	EPA 8015	ND	Throughout WSSSAAP	>160 Days
Chlorides	SM 4500	250 mg/L (DWS)	August 3, 2014	>143 Days
TPH	EPA 8015	1.5 mg/L*	August 27, 2014	>119 Days
TTPC	GCAL	ND	August 19, 2014	>127 Days
Isopropyl Alcohol	EPA 8015	ND	Throughout WSSSAAP	>160 Days

*Limit derived from the West Virginia Draft Supplemental Guidance on TPH, *Draft De Minimus Levels in Soil and Groundwater for Total Petroleum Hydrocarbons*



As per US EPA guidance, Statoil proposes to conduct three (3) more sampling events of the eleven (11) remaining locations to evaluate the surface waters and sediments of the unnamed tributary and of Opossum Creek. Sample locations will include SW06, SW17, SW18, SW21, SW25, SW04, SW20, SW08, PD03, PD07, and SW24. This includes three (3) locations associated with the Eisenbarth gas well pad, six (6) locations associated with the unnamed tributary to Opossum Creek, one (1) location along Opossum Creek, and one (1) location at the confluence of Opossum Creek with the Ohio River. Additionally, one (1) background sample location will be established on a non-impacted unnamed tributary to Opossum creek, and one (1) background sample location will be established in the Sunfish Creek watershed. These three sampling events will follow the US EPA recommended schedule as follows:

- One (1) event immediately following a significant rain event
- One (1) event following a minimum of a three (3) day period with no rain event
- One (1) event in spring of 2015

All data and samples collected from the event on June 28, 2014 through July 19, 2014, were tested for a larger parameter suite than the parameter list established by the US EPA OSC review of the WSSSAAP on July 17, 2014. This more extensive suite of data will be analyzed along with the pared down water quality data from the WSSSAAP at the eleven (11) current surface water locations. A written report evaluating the data at the close of all sampling will be provided to the US EPA for review.

The US EPA has suggested the LC/MS/MS method for TTPC, which will be utilized as the standard for all future TTPC sampling and analysis. The HPLC-UV method will be used additionally for result confirmation and data quality verification as needed.



15.a.iii *Monitor, sample, and assess surface waters and sediments of the unnamed tributary of Opossum Creek and Opossum Creek to its confluence with the Ohio River for potential acute and chronic toxicological impacts on aquatic life and recovery of aquatic communities.*

Water and sediment sample collection and monitoring began on June 29, 2014, from the unnamed tributary to Opossum Creek, Opossum Creek, and a portion of the Ohio River to identify the presence of and to quantify analytes (see Tables 1 and 2) in water and soil.

Water and soil samples were collected at 19 locations: 13 locations along the tributary and Opossum Creek; and six (6) locations along the Ohio River. Four (4) of these locations were sampled to obtain background information. Figure 1 shows the locations of the 19 sampling locations from surface water bodies. In addition to the laboratory analytes measured (Tables 1 and 2), field water quality parameters including pH, conductivity, turbidity, dissolved oxygen (DO), and temperature have also been recorded at the monitoring stations located in the unnamed tributary, Opossum Creek, and the Ohio River.

Shortly after the June 28, 2014 fire, dead aquatic life (mostly fish) were observed in the unnamed tributary and Opossum Creek along a stretch of waterway approximately five (5) miles downstream of the Eisenbarth well pad that ended approximately 0.5 miles before Opossum Creek converges with the Ohio River. The expired fish were collected and preserved. No toxicological testing was conducted due to biological decay of the fish. The collected fish were speciated and sized to identify any potential endangered or threatened species affected. No endangered or threatened species were observed to be affected by the Eisenbarth well pad incident, and the majority of impacted fish were non-game fish such as minnows and darters. There were no additional losses of aquatic life observed after the initial event, and aquatic life was documented as returning to the affected 5 linear mile area shortly after June 28, 2104. No impacted terrestrial wildlife has been documented or observed during any field investigations.

Proposed future actions for 15.a.iii

Statoil proposes to evaluate all data and samples collected from the event during the period from June 28 through July 19, 2104 (see Tables 1 and 2), and to evaluate the remaining data from the WSSSAAP at the eleven (11) active surface water locations from July 19, 2014 until the approved termination of monitoring.

Statoil also proposes to conduct whole effluent toxicity (WET) testing on water collected but not currently discharged from the pad drainage system once remediation activities on Eisenbarth are complete.

- Type of Test: Statoil oil is proposing a static acute definitive WET test at 100%, 50%, 25%, 12.5%, and 6.25% by volume of test water.



- Sample Collection: Representative composite samples will be collected from the water collected but not currently discharged from the pad drainage system.
- Species Selection: Statoil is proposing to use fathead minnows (*Pimephales promelas*) and water fleas (*Ceriodaphnia dubia*), as recommended in Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition (USEPA, 2002) and as required by OEPA as representative of species in Ohio (OEPA, 1998).
- Duration of Testing: Acute toxicity tests using *Ceriodaphnia dubia* will be 48 hours in duration. Acute toxicity tests using fathead minnows will be 96 hours in duration. Test organism survival and observations of behavior and external appearance shall be recorded every 24 hours at a minimum.
- Accuracy: Test will be adequately replicated for a standard 0.05 alpha.
- Testing Procedures: WET analysis will be conducted by a qualified WET laboratory utilizing the protocols specified in Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition (USEPA, 2002).

Statoil believes that this testing will provide information on any potential health impacts to the ecosystem related to the pad drainage system. A proposal and scope of the WET testing program is included as **APPENDIX E**.

Pursuant to US EPA recommendations, Statoil proposes to conduct a biological assessment to evaluate population-level parameters (number, species composition, and size distribution) for fish, crayfish, and benthic macroinvertebrates.

- Time Period: Seasonal variability of species composition is significant in streams in Ohio. In accordance with state-specific biological assessment guidelines and protocols by OEPA (OEPA, 1988; OEPA, 1998; OEPA 2009b), biological survey sampling should be conducted during the summer collection period of June 15 through September 30 – October 15 for the most representative results. OEPA sampled Opossum Creek for the Sunfish Creek Watershed and Selected Ohio River Tributaries study on June 18, June 23, August 4, and August 12 of 2009 (OEPA, 2009c)
- Statoil proposes to conduct all biological assessments early in the summer collection season 2015 with the second sampling to follow early in the summer collection season 2016. In order to sample within first and second year of the incident, Statoil specifically is proposing to conduct the first in-stream biological assessment between June 15 and June 27, 2015, with the second conducted between June 15 and June 27, 2016. These



dates are consistent with the first sampling dates by the OEPA for the two sites in Opossum Creek.

- Locations: As recommended, the biological assessment of Opossum Creek will be conducted at the same sample locations utilized by the Ohio EPA for the watershed study summarized in Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries (OEPA, 2009a). Specifically, sampling will be conducted at OEPA Site Number 13 (Opossum Creek, Beautiful Ridge Road, River Mile 22.2) at 39.7211000° N Latitude, 80.87860000° W Longitude, and at OEPA Site Number 14 (Opossum Creek, Ust Gilmore Run, River Run Mile 24) at 39.7261230° N Latitude, 80.8591640° W Longitude (See attached Figure #1: Sampling Point Location Map).
- Methodology: Biological assessments of Opossum Creek and the unnamed tributary to Opossum Creek will be conducted cost-effectively utilizing US EPA accepted protocols and guidelines, adapted to state-specific procedures and guidelines. All procedures, methods, & protocols will be selected and conducted so as to most accurately capture the biological condition of these waterways, and to most accurately characterize the existence and severity of any impairments to the water resource.

This biological survey will utilize similar methodology and locations to the November 2010 OEPA “Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries”, which included two locations in the Opossum Creek watershed area. In addition to these two (2) locations established in 2010 by OEPA, Statoil will select biased sample locations along the unnamed tributary to Opossum Creek, Opossum Creek, and similar location along waterways in an adjacent, unaffected watershed (Sunfish Creek). Locations, methodology, and scheduling of biological assessment activities are included as **APPENDIX F**.

Once the biological assessment is complete, a report will be produced and provided to the US EPA. This report will include a thorough description of the evaluation methods, photographs of the streams and collected biota, data in graphs and tables, and, where possible, a statistical summary of the data.

As recommended by the US EPA, Statoil proposes Whole Sediment Toxicity Testing (WSTT) of sediments to be collected at three (3) locations within Opossum Creek and/or the unnamed tributary to Opossum Creek.

- Test Sample Site Locations: As recommended, test site selection will be targeted towards the locations where TTPC were observed in Opossum Creek and/or the unnamed tributary to Opossum Creek at the highest concentrations. TTPC was detected above quantitation limit at twelve locations within Opossum Creek, within the unnamed tributary to Opossum Creek, and within the Ohio River downstream of the confluence of Opossum Creek. See Table 6, below for a summary of highest detected concentrations above quantitation limit for all surface water locations. The highest concentrations of



TTPC detected in Opossum Creek and the unnamed tributary to Opossum Creek were detected at locations SW21 (in water and sediment) and SW04 (in water). As such, Statoil proposes to conduct Whole Sediment Toxicity Testing at Location SW21 within the unnamed tributary to Opossum Creek and SW04 within Opossum Creek downstream of the confluence with the unnamed tributary to Opossum Creek (See Proposed WSTT Location Map, **APPENDIX F**).

Table 6
Summary of Detected TTPC Concentrations Above Quantitation Limit

Location ID	Coordinates (NAD83)	Highest Detected TTPC Concentration (sample type)	Date Collected (dd-mmm-yr)
SW01	-80.8993, 39.697544	NA	NA
SW02	-80.89826, 39.69665	NA	NA
SW03	-80.89889, 39.69609	5.69 ug/L (water)	17-Jul-14
SW04	-80.88783, 39.71111	25.6 ug/L (water)	17-Aug-14
SW06	-80.904053, 39.694565	8.85 ug/L (water) 644 ug/kg (sediment)	19-Aug-14 10-Jul-14
SW07	-80.870556, 39.762909	5.25 ug/L (water)	15-Jul-14
SW08	-80.85215, 39.73866	NA	NA
SW09	-80.84044, 39.72792	19.6 ug/L (water)	18-Jul-14
SW10	-80.86101, 39.66869	NA	NA
SW11	-80.88822, 39.71075	NA	NA
SW12	-80.89769, 39.71466	NA	NA
SW14	-80.88356, 39.71267	NA	NA
SW15	-80.879669, 39.72037	9.16 ug/L (water)	15-Jul-14
SW16	-80.8259, 39.70961	8.71 ug/L (water)	18-Jul-14
SW17	-80.90658, 39.70291	12.3 ug/L (water)	17-Jul-14
SW18	-80.90309, 39.71019	3.97 ug/L (water)	19-Aug-14 10-Jul-14
SW19	-80.90380, 39.69405	NA	NA
SW20	-80.896999, 39.714	9.72 ug/L (water) 413 ug/kg (sediment)	07-Sep-14 14-Aug-14
SW21	-80.903626, 39.69431	31.6 ug/L (water) 1320 ug/kg (sediment)	18-Jul-14 10-Jul-14
SW22	-80.870556, 39.762909	NA	NA
SW23	-80.90385, 39.69411	18.3 ug/L (water)	13-Aug-14
SW24	-80.90117, 39.698096	NA	NA
SW25	-80.90477, 39.69654	NA	NA



- Control Sample Site Location: As recommended a background, control site will be selected within Opossum Creek, upstream of the confluence of the unnamed tributary to Opossum Creek with Opossum Creek. The exact location of upstream background, control sample location will be selected on-site to be similar enough to the Test Sites to have similar biological expectations to minimize natural inter-site variability. The location of the Control Sample Site will be located using GPS (sub-meter accuracy).
- Sample Collection: Representative composite, sediment samples will be collected from each Sample Site. Samples will be collected from depositional areas of fine grain material (silts and clays), which typically are represented by higher contaminant levels, compared to sands and gravels. All sediment sampling will occur within the stream bed in areas along the stream bank, which are represented by sparse deposits of fine grain material, within a 15-meter reach centered on mapped Site Location.
- Site Documentation: Basic stream characteristics of each Sample Site will be recorded on Physical Characterization/Water Quality and Habitat Assessment Field Data Sheets, in accordance with the procedures specified in Rapid Bioassessment Protocols For Use in Streams and Wadeable Rivers, 2nd Edition (USEPA, 1999).
- Species Selection: In accordance with Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates, 2nd Edition (USEPA, 2000), two organisms will be used for testing, the amphipod *Hyalella azteca* and the midge *Chironomus tentans*.
- Duration of Testing: Statoil proposes a 10-day Sediment Toxicity Test of the sediments collected from Opossum Creek and/or the unnamed tributary to Opossum Creek.
- Accuracy: Test will be adequately replicated for a standard 0.05 alpha.
- Testing Procedures: Whole Sediment Toxicity Testing will be conducted by a qualified laboratory utilizing the protocols specified in Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates, 2nd Edition (USEPA, 2000).

Statoil is currently adhering to the WSSSAAP, but requests to discontinue the routine and continual surface and sediment sampling within three days of approval from US EPA of the Draft Work Plan, and to replace those activities with the proposed future action plan described herein.



Proposed Schedule of Tasks

Statoil proposes the following schedule to implement the removal action outlined in this work plan.

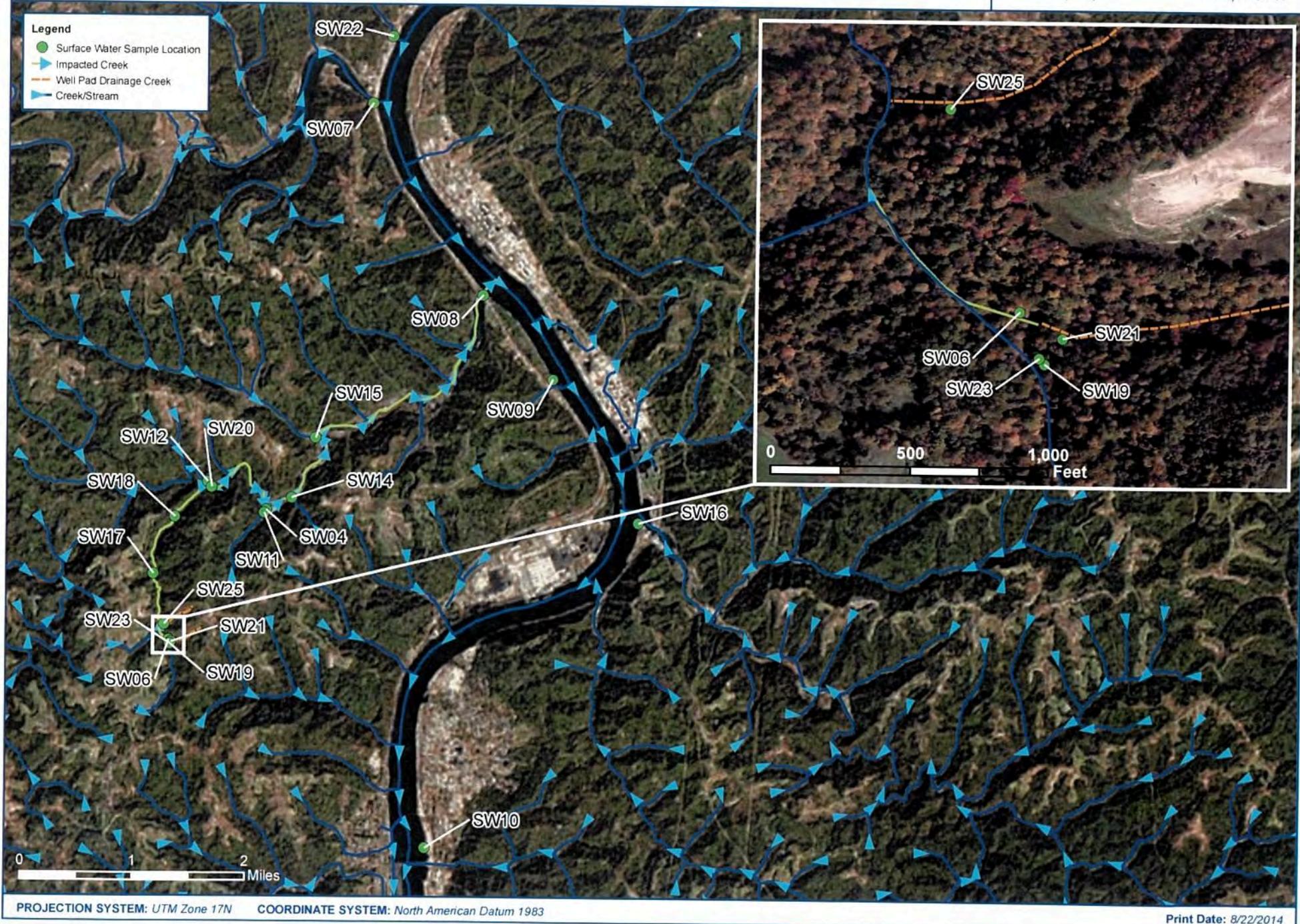
Table 7
Proposed Task Schedule

Description of Actions	Time Required for Task after Approval of Work Plan by US EPA
1. Review and evaluate data for 15.a.i	6 weeks
2. Submit report of evaluation of data for 15.a.i	8 weeks
3. Review and evaluate data for 15.a.ii	14 weeks
4. Submit report of evaluation of data for 15.a.ii	16 weeks
5. Perform WET testing, WSTT testing, and biological assessment plan	24 weeks
6. Review and evaluate data for 15.a.iii	30 weeks
7. Write report of evaluation of data for 15.a.iii	32 weeks



Figure 1: Surface Water Sample Locations
Ohio Operations Incident

Project: 106393
Client: Statoil
City: Hannibal, OH
County: Monroe



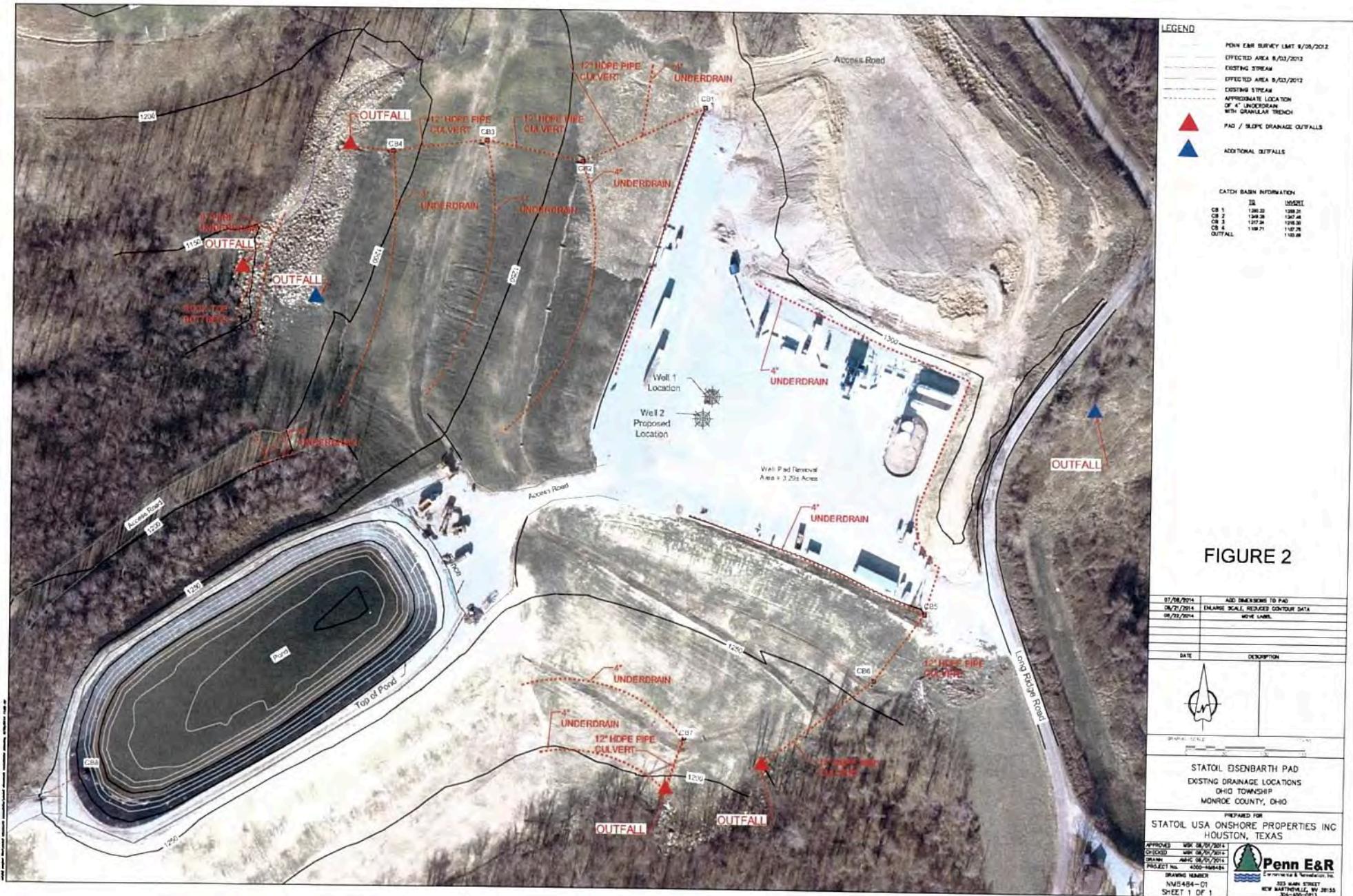
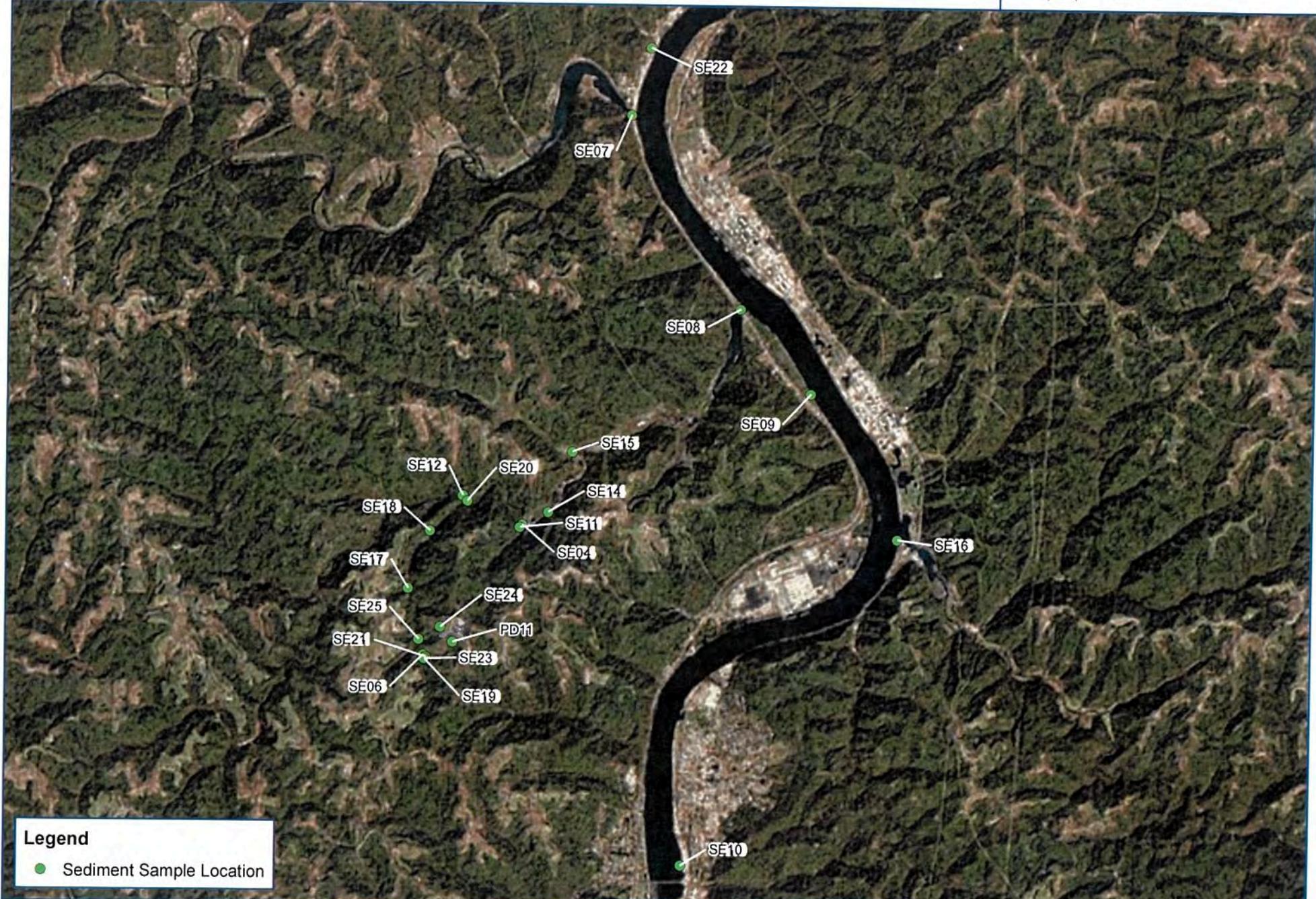
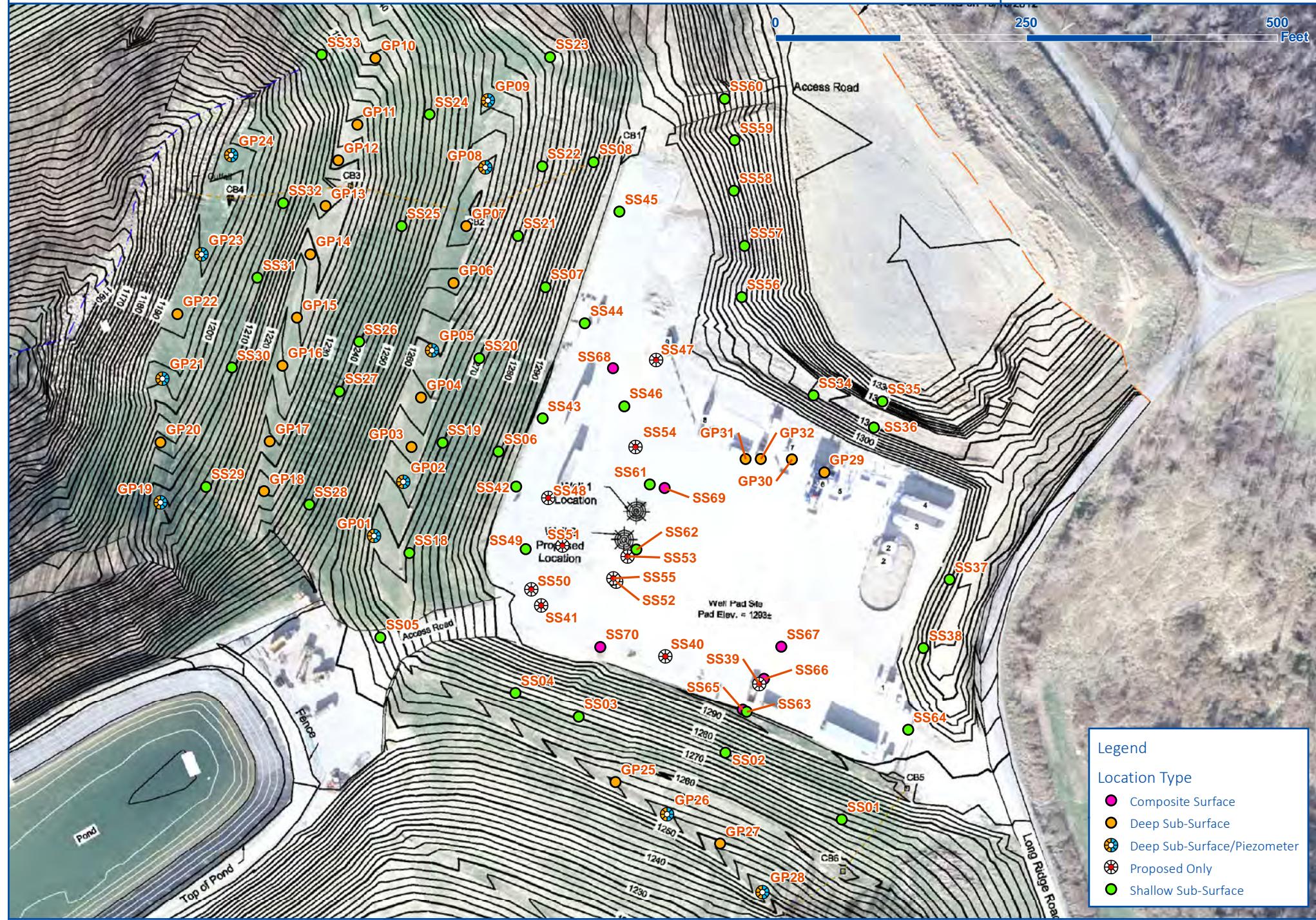
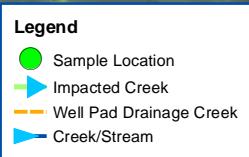


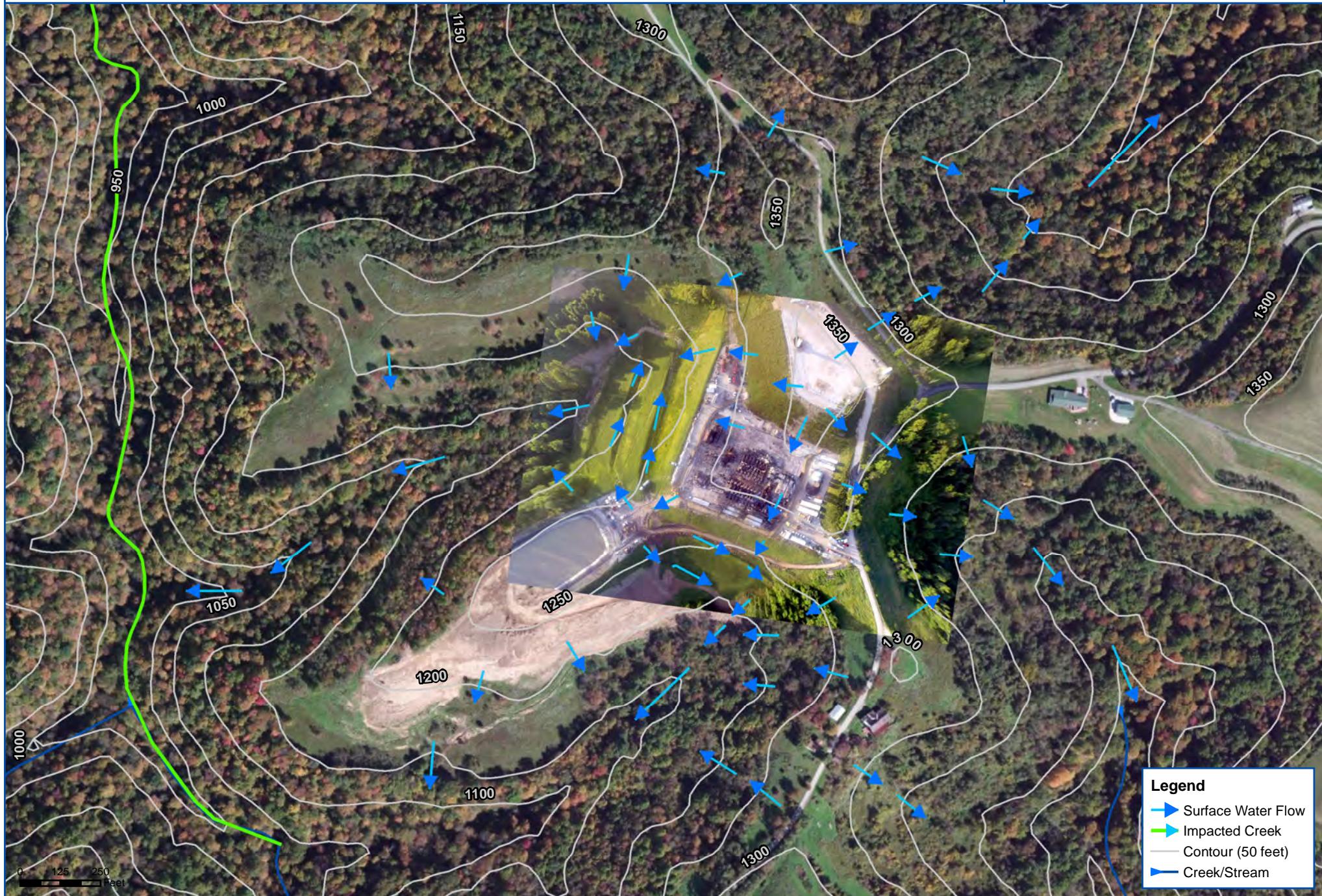
FIGURE 2





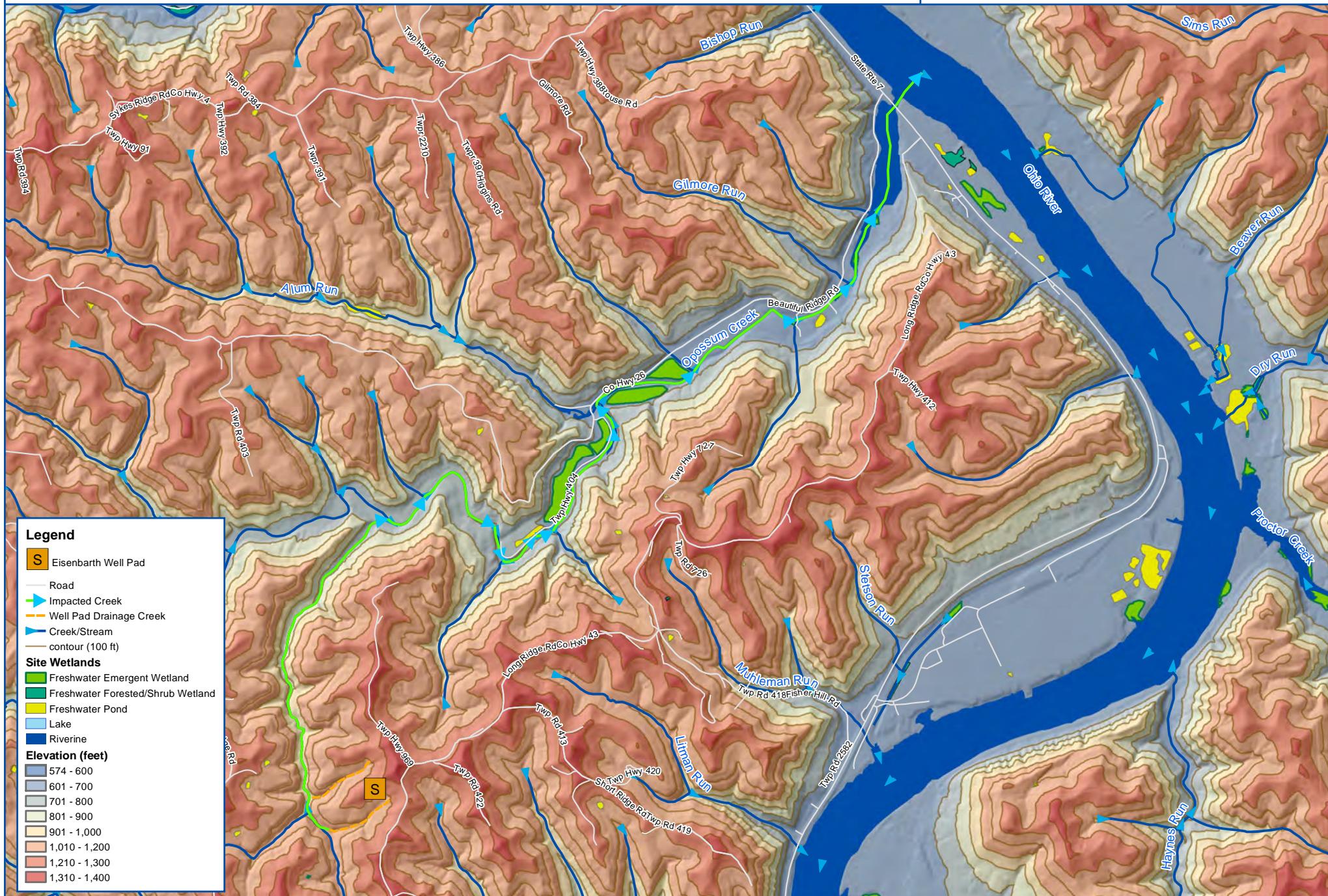








0 0.5 Miles



APPENDIX A

Environmental Sampling and Analysis Plan

Ohio Operations Incident

Hannibal, OH

Environmental Sampling and Analysis Plan Version 1.7

Prepared On Behalf Of:

Statoil

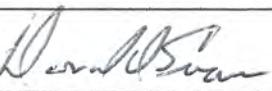
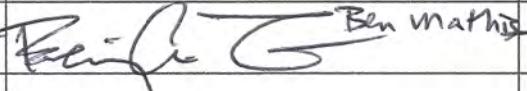
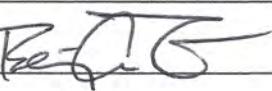
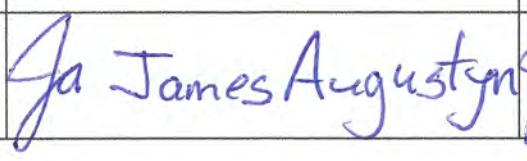
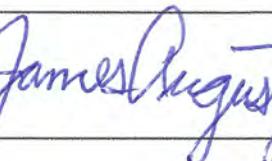
Prepared By:

Center for Toxicology and Environmental Health, L.L.C.

5120 North Shore Blvd

Little Rock, AR 72118

501-801-8500

	Position/Name	Signature	Date Signed
Prepared by:	Scott Kluska CTEH® Sr. Consultant		
Submitted by EUL:	DONALD EVANS		7/17/14
Approved by RP-IC:			7/17/14
Reviewed by: Ohio State EPA			
Reviewed by: Federal EPA			7/17/14

1.0 INTRODUCTION AND PURPOSE

This Sampling and Analysis Plan (SAP) was prepared on behalf of Statoil supporting Incident Command to provide environmental sampling work plans related to the Ohio Operations Incident in Hannibal, OH, which began on Saturday June 28, 2014. A map of the site location is provided in Attachment A.

The incident involves a well pad that was engulfed in a fire, consuming products that were stored on-site as well as releasing produced water from a wellhead. The objectives of the environmental investigation and proposed sampling include:

- 1) The collection of water, soil, and sediment samples to coarsely delineate areas of potential impact and assess the need for and, effectiveness of, the containment and cleanup activities on the well pad and areas potentially impacted from off-pad run-off.
- 2) The collection of background surface water, soil, and sediment samples to develop the range of potential background concentrations for comparative purposes and attempt to distinguish between target analytes related to this incident and non-related target analytes.

2.0 HEALTH AND SAFETY

CTEH® sampling personnel will review and adhere to the site specific Health and Safety Plan (HASP) developed by CTEH®. Sampling activities will only be completed in a safe manner and under safe conditions as dictated by the HASP.

3.0 DATA QUALITY OBJECTIVES

The data collected during field activities will be used to assess potential exposures to human health and the environment to constituents potentially related to the Ohio Operations Incident. A strategic planning approach will be employed for data collection activities providing a systematic procedure to ensure the type, quantity and quality of data used in decision-making will be appropriate for the intended application. All samples will be submitted to an analytical laboratory for a Level II data quality package.

4.0 SURFACE WATER AND SEDIMENT EVALUATION AND METHODOLOGY

4.1 Surface Water Monitoring

Surrounding drainage pathways and waterways downstream of the incident location will be visually inspected and photo-documented to note adverse impacts, if any. Documentation produced will also note general conditions such as GPS coordinates, odors, water flow,

weather, observations of any dead fish, etc. General water quality readings will also be documented along waterways both up gradient and down gradient of the well pad to monitor for potentially measurable impacts. Surface water monitoring will be conducted daily and will include the following parameters:

- Temperature
- pH
- Conductivity
- Dissolved Oxygen
- Turbidity
- ORP
- Salinity
- Total Dissolved Solids

4.2 Surface Water Samples

A surface water samples to be collected from run-off flowing off-pad prior to the well shut-in in an effort to characterize source constituents. Containment measures to be deployed and the impacted well has been shut-in. The site is currently being monitored to determine if run-off is escaping containment or impacting local waterways; if either case is found, a sample will be collected upstream and downstream of the run-off's confluence with the potentially impacted waterway. Additional surface water samples may be collected downstream from the site. A sample location map is included in Attachment A. All sampling will be documented in field notebooks, CTEH® field forms, or hand-held devices and surface water samples will be submitted to an Ohio certified lab for analysis.

Methodology and Analysis

Surface water samples will be carefully decanted directly into laboratory supplied sample containers and submitted to Pace Analytical, a NELAP-accredited laboratory, in Pittsburgh, Pennsylvania. Water quality parameters including: pH, ORP, dissolved oxygen, conductivity, salinity, TDS, temperature, and turbidity will be recorded for each surface water sample using a Horiba U-52 (or similar) water quality meter.

CTEH® plans on submitting collected samples for analysis of:

- Volatile organic compounds (VOCs) + TICS by USEPA Method 8260
- Semi-volatile organic compounds (SVOCs) + TICS by USEPA Method 8270
- Total Petroleum Hydrocarbons – Diesel Range Organics by USEPA Method 8015
- Cations by USEPA Method 6010B
- Anions by USEPA Method SM4500
- Ethylene Glycol by USEPA Method 8015

Acute aquatic toxicity tests indicate an LC₅₀ for tributyl tetradecyl phosphonium chloride (TTPC) of <1 mg/L in certain fish species. At this time, no USEPA Method exists for the analysis of TTPC, a compound which comprises up to 10% (w/w) of the biocide BE-9 present on-site. Efforts are currently being undertaken to explore the potential for analytical method development for TTPC and, if available, will be presented to the Environmental Unit Leader for discussion.

Location and Frequency

Initial sampling consisted of the collection of surface water samples from the potentially impacted run-off liquids flowing off of the incident site. In addition to single-event surface water samples, i.e. locations sampled at one point in time only (site run-off and/or feeding tributaries), additional samples will be collected daily from established surface water sampling locations provided there is water flow in the area. A table identifying the frequency of sampling at each station, along with a map identifying the location of each station is provided in Attachment A. Surface water sampling will continue until Unified Command deems further daily sampling unnecessary following assessment of analytical sampling results.

Additional daily surface water sampling may consist of additional samples collected from the following locations as deemed necessary by Unified Command:

- Within the confluence of the Ohio River and Opossum Creek.
- Within the Ohio River, immediately upstream of the confluence of the Ohio River and Opossum Creek.
- Within the Ohio River, immediately downstream of the confluence of the Ohio River and Opossum Creek.
- Within the Ohio River along the West Virginia shoreline, directly across from the confluence of the Ohio River and Opossum Creek.

Surface water samples will be collected for at least 7 days following the start of the incident, at which point laboratory data will be reviewed and sampling plans will be re-assessed.

4.3 Sediment Samples

Sediment samples will be collected from the creeks, streams and river that are down gradient from the Site in order to characterize the surface and subsurface soil for the presence of constituents of concern (COPC).

Methodology and Analysis

The following procedures will be implemented for sediment samples in the waterways down gradient of the site. The planned sample locations coincide with surface water locations and are indicated on the map attached in Attachment A. Sediment samples will be per the following:

1. Sediment samples from each location will be collected utilizing a stainless steel spoon, or a modified Van Veen-type, self-tripping ponar sampling device (ponar). The overlaying water in the spoon or ponar sampling device will be carefully decanted off. Each sample container will be completely filled to minimize headspace. Vegetation, rocks, litter, and other non-native soil material will be carefully removed.
2. Non-disposable equipment will be decontaminated using a bristled brush and a solution comprised of a laboratory grade, non-phosphate detergent (e.g., Alconox or Liquinox), rinsed with distilled water, and then rinsed a second time with deionized water.
3. The following field notes will be collected for each soil sample:
 - a. Observations regarding color, odor, etc.
 - b. GPS coordinates of sampling points
 - c. Photo-documentation of sample area
 - d. Date and time
4. Sample containers will be clearly labeled with the following information:
 - e. Unique sample identification
 - f. Sampler initials
 - g. Date and time sample collected
5. Field samples will be contained in accordance with appropriate USEPA specifications consistent with the intended analysis.
6. Evidence of collection, shipment, laboratory receipt, and laboratory custody will be documented by maintaining a chain of custody (COC) that records each sample and the individuals responsible for sample collection. All samples will be accompanied by a COC Record.

CTEH® plans on submitting collected samples for analysis of:

- Volatile organic compounds (VOCs) + TICS by USEPA Method 8260
- Semi-volatile organic compounds (SVOCs) + TICS by USEPA Method 8270
- Total Petroleum Hydrocarbons – Diesel Range Organics by USEPA Method 8015
- Chlorides
- Cations by USEPA Method 6010B
- Anions by USEPA Method SM4500
- Ethylene Glycol by USEPA Method 8015

Location and Frequency

Sediment samples will be collected from the waterways in conjunction with the surface water locations. Sediment samples will be collected as a one-time event. Upon review of the analytical results, additional samples may be collected after a significant rainfall event.

5.0 SOIL SAMPLING METHODOLOGY AND ANALYSIS

5.1 On-Pad Soil Samples

Soil samples will be collected from the production pad area in order to characterize the surface and subsurface soil for the presence of constituents of concern (COPC).

Methodology and Analysis

The following procedures will be implemented for soil sampling in the designated areas on-pad. The planned sample locations are indicated on the map attached as Attachment A. Soil samples will be collected from the ground surface to a depth of approximately 10'.

1. Soil samples from each location will be collected utilizing a stainless steel spoon or disposable sampling equipment. Each sample container will be completely filled to minimize headspace. Vegetation, rocks, litter, and other non-native soil material will be carefully removed.
2. Non-disposable equipment will be decontaminated using a bristled brush and a solution comprised of a laboratory grade, non-phosphate detergent (e.g., Alconox or Liquinox), rinsed with distilled water, and then rinsed a second time with deionized water.
3. The following field notes will be collected for each soil sample:
 - a. Observations regarding color, odor, etc.
 - b. GPS coordinates of sampling points
 - c. Photo-documentation of sample area
 - d. Date and time
4. Sample containers will be clearly labeled with the following information:
 - j. Unique sample identification
 - k. Sampler initials
 - l. Date and time sample collected
5. Field samples will be contained in accordance with appropriate USEPA specifications consistent with the intended analysis.
6. Evidence of collection, shipment, laboratory receipt, and laboratory custody will be documented by maintaining a chain of custody (COC) that records each sample and the individuals responsible for sample collection. All samples will be accompanied by a COC Record.

CTEH® plans on submitting collected samples for analysis of:

- Volatile organic compounds (VOCs) + TICS by USEPA Method 8260
- Semi-volatile organic compounds (SVOCs) + TICS by USEPA Method 8270
- Total Petroleum Hydrocarbons – Diesel Range Organics by USEPA Method 8015
- Chlorides
- Cations by USEPA Method 6010B
- Anions by USEPA Method SM4500
- Ethylene Glycol by USEPA Method 8015

Location and Frequency

Initial soil samples will be collected from the production pad area once the area has been cleared by IC for sampling activities. Additional samples may be required once data has been received and reviewed by IC.

5.2 Off-Pad Soil Samples

Off-pad soil samples will be collected from preferential run-off pathways from the production pad and select stream sampling locations in conjunction with surface water sampling locations.

Methodology and Analysis

The following procedures will be implemented for off-pad soil in the designated areas. Off-pad soil samples will be collected from preferential run-off pathways from the production pad and will be initiated after a near-pad survey has been conducted.

1. Soil samples from each location will be collected utilizing a stainless steel spoon or disposable sampling equipment. Each sample container will be completely filled to minimize headspace. Vegetation, rocks, litter, and other non-native soil material will be carefully removed.
2. Non-disposable equipment will be decontaminated using a bristled brush and a solution comprised of a laboratory grade, non-phosphate detergent (e.g., Alconox or Liquinox), rinsed with distilled water, and then rinsed a second time with deionized water.
3. The following field notes will be collected for each soil sample:
 - A. Observations regarding color, odor, etc.
 - B. GPS coordinates of sampling points
 - C. Photo-documentation of sample area
 - D. Date and time
 - E. Sample containers will be clearly labeled with the following information:
 - a. Unique sample identification

- b. Sampler initials
 - c. Date and time sample collected
- F. Field samples will be contained in accordance with appropriate USEPA specifications consistent with the intended analysis.
- G. Evidence of collection, shipment, laboratory receipt, and laboratory custody will be documented by maintaining a chain of custody (COC) that records each sample and the individuals responsible for sample collection. All samples will be accompanied by a COC Record.

CTEH® plans on submitting collected samples for analysis of:

- Volatile organic compounds (VOCs) + TICS by USEPA Method 8260
- Semi-volatile organic compounds (SVOCs) + TICS by USEPA Method 8270
- Total Petroleum Hydrocarbons – Diesel Range Organics by USEPA Method 8015
- Chlorides
- Cations by USEPA Method 6010B
- Anions by USEPA Method SM4500
- Ethylene Glycol by USEPA Method 8015

Similar to the surface water sampling, efforts will be made to identify analytical methods to quantify the concentration of TTCP in off-pad soil.

Location and Frequency

Initial soil samples will be collected from the preferential run-off pathways from the production pad area and at designated stream locations. Additional samples may be required once data have been received and reviewed by IC.

5.3 Sub-surface Soil Sampling

Sub-surface soil samples will be collected from potentially impacted areas both on and off the StatOil Eisenbath well pad. Samples will be collected through hand advanced direct push soil borings.

Methodology and Analysis

The following procedures will be implemented for on-pad and off-pad soil in the designated areas. Soil samples will be collected from potential preferential run-off pathways from the production pad or based on surface water flow direction and will be initiated after a near-pad survey has been conducted. Subsurface soil samples will be collected from locations depicted on the Soil Sampling Location map in Attachment A.

Utility Clearance

Prior to field mobilization for the activities described in this SAP, a utility mark-out will be performed to identify underground utilities at the Site. The utility mark-out will be made through the Ohio Utilities Protection Service (OUPS) – underground utilities search system at 8-1-1 or (800) 362-2764. In addition to the OUPS call, a review of available site drawings will be conducted to evaluate for the presence of site utilities not identified by the OUPS notification. If necessary, soil boring locations will be modified in the field to avoid potential interference from utilities.

Soil Boring Installation

Subsurface soil samples will be collected through the use of direct push Geoprobe System's - Large Bore soil sample barrel. These borings will be driven into the ground using either an electric jackhammer outfitted with the direct push equipment or Geoprobe Model 54LT direct push track mounted machine.

Soil borings will be advanced to the depth of equipment refusal or approximately 10' (with the jackhammer driven equipment) or approximately 30' (with the model 54LT track mounted unit), whichever is less.

Field work conducted during this investigation, including soil boring and sampling activities will be conducted in accordance with the Job Safety Analysis (JSA) and Work Permit.

Continuous soil cores will be collected within disposable acetate sleeves with the direct push equipment. Upon retrieval from the boring, the sleeves will be opened by the CTEH personnel for field screening with a PID, visual evaluation and sample collection. At a minimum, one soil sample will be collected from the level of where the highest PID reading was observed and another soil sample will be collected from the bottom of the borehole.

Following completion of borings at a given location, including field screening and sampling activities, soil not used for sampling will be returned to the boring. Some borings may be left open and PVC well screen may be temporarily placed in the boring to keep the bore hole open to look for subsurface water infiltration.

Sample Collection

1. Soil samples from each location will be collected utilizing a stainless steel spoon or dedicated disposable sampling equipment. Each sample container will be completely filled to minimize headspace. Vegetation, rocks, litter, and other non-native soil material will be carefully removed.
2. Non-disposable equipment will be decontaminated using a bristled brush and a solution comprised of a laboratory grade, non-phosphate detergent (e.g., Alconox or Liquinox), rinsed with distilled water, and then rinsed a second time with deionized water.
3. The following field notes will be collected for each soil sample:
 - i. Observations regarding color, odor, PID readings, etc.
 - ii. Soil lithology and depth

- iii. GPS coordinates of sampling points
 - iv. Photo-documentation of sample area
 - v. Date and time
4. Sample containers will be clearly labeled with the following information:
 - b. Unique sample identification
 - c. Sampler initials
 - d. Date and time sample collected
5. Field samples will be contained in accordance with appropriate USEPA specifications consistent with the intended analysis.
6. Evidence of collection, shipment, laboratory receipt, and laboratory custody will be documented by maintaining a chain of custody (COC) that records each sample and the individuals responsible for sample collection. All samples will be accompanied by a COC Record.

CTEH® plans on submitting collected samples for analysis of:

- Volatile organic compounds (VOCs) + TICS by USEPA Method 8260
- Semi-volatile organic compounds (SVOCs) + TICS by USEPA Method 8270
- Total Petroleum Hydrocarbons – Diesel Range Organics by USEPA Method 8015
- Chlorides
- Cations by USEPA Method 6010B
- Anions by USEPA Method SM4500
- Ethylene Glycol by USEPA Method 8015

Similar to the surface water sampling, efforts will be made to identify analytical methods to quantify the concentration of TTCP in off-pad soil.

Location and Frequency

Initial subsurface soil samples will be collected in the area of the preferential run-off pathways or surface water runoff areas from the production pad area. Boring locations will also be selected along the western and southern slopes below the Eisenbarth pad. The hand probe will be used for the steep slope areas and the track mounted unit will be utilized on the flatter bench locations on the slopes. Once access is cleared, soil borings may be advanced at various locations on the Eisenbarth pad. Additional samples may be required based on field observations and/or once data have been received and reviewed by IC.

Upon completion of the borings, if any water or soil is found to be suspect, samples may be collected for analyses. Water and soil samples will be collected in accordance with Sections 4.0 and 5.2 above.

5.4 Soil Test Pits

In order to investigate any potential subsurface water or liquid migration from the production pad, test pits will be installed at various locations off the pad. The test pits will be installed through the use of a hydraulic mini-excavator. The test pits will be excavations to a depth of

approximately 3'-4' and a length of approximately 4' and a width of approximately 2'. The pits will be backfilled after visual observations and PID screening is completed.

Upon completing the excavation of each test pit, if any water or soil is found to be suspect, samples may be collected for analyses. Water and soil samples will be collected in accordance with Sections 4.0 and 5.2 above.

If warranted, the test pits may be extend and turned into trenches for recovery of water or liquids from either surface or sub-surface flow.

5.5 Surface Soil Screening

In an effort to assess any surface soil impact along the slopes down gradient from the well pad, field screening will be utilized. Soil samples will be collected across the slopes at approximately a 100' interval and placed in containers (either glass jars or ziplock bags). After approximately 15 minutes, the head space will be check for volatile organics through the use of a handheld photoionization detector (PID). Following the headspace analyses, the location will be labeled and marked with a Pin flag for further investigation if needed.

6.0 SAMPLE HANDLING PROCEDURES

Samples will be placed in laboratory supplied sample containers and labeled with a sample identification number, sample depth (for water column sampling), sampler name, sample date, analysis and methodology requested, and time of sample collection, and immediately placed in a cooler on ice pending laboratory analysis. Samples will be packaged, labeled, retained on ice, and documented in an area which is free of impact and provides for secure storage. Custody seals will be placed on each sample-containing cooler, and chain-of-custody procedures will be maintained from the time of sample collection until arrival at the laboratory to protect sample integrity. Shipping or transporting of samples to the laboratory will be done within a timeframe such that recommended holding times are met. Samples are being collected in adequate volumes in sample containers of a broad variety to ensure that any future requested analyses can be performed given the collected sample container types.

6.1 SAMPLE LABELING

Sample containers will be clearly labeled with the following information:

- Unique sample identification;
- Sample Type (discrete or composite, sediment and/or soil samples only);
- Sampler name or initials;
- Date sample collected;
- Time sample collected; and
- Analysis to be performed.

The unique sample designation will include the following: sample type, two digit day, two digit month, two letter matrix prefix, three-digit numerical designation, and QA sample designation, as appropriate. The sample type will be SW surface water and SC for source sampling.

Quality assurance samples include Matrix Spikes (MS - 1 in 20 by media), Matrix Spike Duplicates (MSD - 1 in 20 by media), rinsate blank (RB) only when using non-dedicated sampling equipment, and duplicates (DUP) in 1 out of 10 samples by media. These samples are defined further below.

7.0 QUALITY ASSURANCE

Sampling will be carried out in conjunction with a well-defined quality assurance (QA) program. The goal of the field QA program is to document that samples are collected without the effects of accidental cross- or systematic contamination and refers to the sampling, analysis, and data validation procedures for generating valid and defensible data. To provide QA for the proposed sampling event, the following sampling, analysis, and data validation procedures will be performed:

Field Calibration

Instruments used in the field as part of this sampling event are anticipated to consist of Horiba U-52 water quality meters, GPS units, digital cameras, and hand-held data collection devices such as tablets/smart phones. Horibas will be calibrated daily. Other equipment is not anticipated to require field calibration. Operators of each piece of equipment are responsible for maintaining (including proper battery charge) and operating this equipment such that it conforms to each respective manufacturer's specifications.

Field Duplicate Sample

For approximately every ten samples collected in the field, one field duplicate will be collected and submitted for laboratory analysis to verify the reproducibility of the sampling methods. Field duplicates will be prepared by separately submitting an aliquot from the same sample location to the laboratory for analysis consistent with the proscribed analyses.

Field Split Samples

Field split samples refer to samples collected by the on-site regulatory agency or its designee from the same sampling location and independently submitted to a different laboratory for analysis. Field split samples may be collected at the discretion of representatives of the regulatory agency or Incident Command.

Laboratory QA

Laboratory quality control procedures will be conducted in a manner consistent with relevant state and federal regulatory guidance. Deliverables will contain the supporting documentation necessary for data validation. Internal laboratory quality control checks will include method blanks, matrix spikes (and matrix spike duplicates), surrogate samples, calibration standards, and laboratory control standards (LCSs).

Matrix Spike/Matrix Spike Duplicate Sample

Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples refer to field samples spiked with the analytes of interest prior to being analyzed at the laboratory to gauge the quality of analysis. Approximately one in twenty samples will be analyzed as MS/MSD samples.

Data Validation

Validation of the data generated by the laboratory performing the analyses will include at a minimum sample holding times, accuracy, precision, contamination of field generated or laboratory method blanks, and surrogate compound recovery. Accuracy will be determined by evaluating LCS and MS recovery. Precision will be determined by evaluating laboratory and field duplicate samples. Level II data validation will be performed on 100% of submitted samples. Level IV data validation will be performed on at least 10% of submitted samples.

8.0 DECONTAMINATION PROCEDURES

Decontamination procedures refer to the steps undertaken to minimize the potential for off-pad contamination and cross-contamination between individual sampling locations. Prior to collecting any sample for this investigation, the following decontamination procedures will be undertaken: non-disposable sampling equipment such as Kemmerer water sampling devices which come into contact with sampling media will be decontaminated using a bristled brush and a solution comprised of a laboratory grade, non-phosphate detergent (e.g., Alconox or Liquinox) and deionized water. Depending on ancillary activities being conducted for the response to this release, the decontamination of sampling equipment will be conducted over poly sheeting at the sample location or in a nearby designated area. The sampling equipment to be decontaminated will first be placed in a bucket containing the detergent solution and thoroughly washed using a bristled brush. The items will then be transferred to the second 5-gallon bucket containing deionized water for rinsing. Following the initial rinsing, the item will be held over the third 5-gallon bucket while deionized water is carefully decanted over each item. Decontaminated items will be wrapped in clean aluminum foil for transit to the next sampling location.

Nitrile gloves will be worn by sampling personnel and changed between activities at each discrete sample collection location. Previously worn nitrile gloves will be discarded in appropriate waste receptacles with other PPE.

9.0 WASTE DISPOSAL

The method for storage and disposal of investigative-derived waste materials will comply with applicable local, state, and federal regulations in a manner consistent with the Waste Management Plan (WMP). (This WMP is pending the decision of identification of the Waste Generator).

10.0 DATA ANALYSIS

To assess the potential environmental impact from the compromised well pad, the results of sampling will be reviewed for the presence/absence of on-site constituents. The concentrations of detected compounds will then be compared to appropriate regulatory standards. The results of laboratory analyses will be provided to IC.

11.0 RECORDS MANAGEMENT

Records management refers to the procedures for generating, controlling, and archiving project-specific records and records of field activities. Project records, particularly those that are anticipated to be used as evidentiary data, directly support current or ongoing technical studies and activities, and provide historical evidence needed for later reviews and analyses, will be legible, identifiable, retrievable and protected against damage, deterioration, or loss on a centralized electronic database. Handwritten records will be written in indelible ink. Records will likely include, but are not limited to, the following: bound field notebooks on pre-numbered pages, sample collection forms, personnel qualification and training forms, sample location maps, equipment maintenance and calibration forms, chain-of custody forms, maps and drawings, transportation and disposal documents, reports issued as a result of the work, procedures used, correspondences, and any deviations from the procedural records. Documentation errors will be corrected by drawing a single line through the error so it remains legible and will be initialed by the responsible individual, along with the date of change, and the correction will be written adjacent to the error.

Attachment A:

Frequency of Sampling Table

&

Analytical Sampling Map

Sample Location	Sampling Frequency
SW01	1x
SW02	1x
SW03	Daily
SW04	Daily
PW05	1x
SW06	Daily
SW07	Daily
SW08	Daily
SW09	Daily
SW10	Daily
SW11	1x
SW12	1x
SW13	1x
SW14	1x
SW15	1x
SW16	Daily
SW17	Daily
SW18	Daily
SW19	Daily
SW20	Daily
SW21	Daily

APPENDIX B

Water, Soil, and Sediment Sampling and Analysis Adjustment Plan

Ohio Operations Incident

Hannibal, OH

Water, Soil, and Sediment Sampling and Analysis Adjustment Plan

Version 1.0

Prepared On Behalf Of:

Statoil

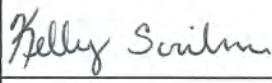
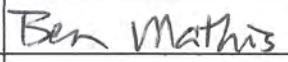
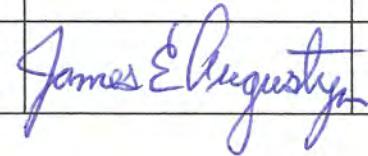
Prepared By:

Center for Toxicology and Environmental Health, L.L.C.

5120 North Shore Blvd

Little Rock, AR 72118

501-801-8500

	Position/Name	Signature	Date Signed
Prepared by:	Kelly Scribner, Ph.D. Toxicologist		7/17/14
Submitted by EUL:			
Approved by RP-IC:			7/17/14
Reviewed by: Ohio State EPA			
Reviewed by: Federal EPA	James E. Augustyn		7/17/14

1.0 INTRODUCTION AND PURPOSE

This adjustment plan is being prepared to further refine water, soil, and sediment sampling efforts initiated after the Ohio Operations Incident based on the data collected, the completion of remediation efforts at various locations, and comparison of analytical results to ecological and human health screening levels established by the Ohio EPA, USEPA Region V RCRA, and USEPA. To date, the original Sampling and Analysis Plan (SAP), approved by Unified Command, has been utilized for the following functions:

Sample surface water at seventeen fixed sampling locations daily covering the Ohio River, Opossum Creek, Well-pad outflows and drainage, and an unnamed tributary from the well pad to Opossum Creek (Appendix A);

Collect soil boring and hand boring samples around the well pad (Appendix B);

Collect sediment samples at fifteen fixed locations periodically, in conjunction with the surface water samples discussed above; and after rain events.

Collect water run-off samples at outflow pipes and well-pad run-off daily, as necessary.

Water, soil, and sediment sampling efforts were initiated on Sunday, June 29, 2014. At the request of Unified Command – ICP Hannibal, environmental sampling has been conducted under the SAP that was approved by Unified Command (UC) on July 2, 2014 and revised on 7/13/2014.

The following sections identify the rationale for a reduction and/or elimination of environmental sampling efforts for the Ohio Operations Incident.

2.0 Environmental Sampling Results

Per the Environmental SAP, currently approved by Unified Command and implemented by CTEH®, sampling was performed daily for surface water, periodically for sediment (two sampling events have currently occurred), and soil samples were used to delineate any potential migration of materials from the Eisenbath well pad. Due to weather and safety stand downs, all fixed sampling locations were not sampled every day; however, the collection of surface water and sediment samples has been ongoing for 17 days.

Reported data has been compared to screening levels identified by the Ohio EPA and Region V USEPA as being protective of human health and aquatic life. Of the over 180 surface water samples, 30 sediment samples, and 27 soil samples collected through July 16, 2014, the primary chemicals of potential concern have been identified as Acetone and Chloride.

Initially water sampling from well pad runoff was compared to samples taken from upstream tributaries to exclude natural creek constituents. 25 preliminary chemicals of potential concern were identified (Figure 1.)

Upstream	Source
Acetone	1-Methylnaphthalene
Aluminum	2-Butanone (MEK)
Barium	2-Methylnaphthalene
bis(2-Ethylhexyl)phthalate	2-Methylphenol(o-Cresol)
Calcium	3&4-Methylphenol(m&p Cresol)
Chloride	Acetone
Chromium	Aluminum
Fluoride	Antimony
Iron	Arsenic
Magnesium	Barium
Manganese	Benzene
Nitrate as N	bis(2-Ethylhexyl)phthalate
Nitrite as N	Bromide
Phosphorus	Calcium
Potassium	Chloride
Sodium	Copper
Strontium	Ethylbenzene
Sulfate	Fluoride
	Iron
	Lithium

Figure 1. Identification of COPCs from well-pad Run-off.

Of the 25 COPCs initially identified, 15 were localized only to the well-pad run-off samples. These 15 were not detected in the tributary or Opossum creek following the incident (Figure 2.)

COPC	Detection Profile
1-Methylnaphthalene	Source Only
2-Butanone (MEK)	Source Only
2-Methylnaphthalene	Source Only
2-Methylphenol(o-Cresol)	
3&4-Methylphenol(m&p Cresol)	Source Only
Acetone	
Antimony	Source Only
Arsenic	
Benzene	Source Only
Bromide	
Chloride	
Copper	Source & Ohio Only
Ethylbenzene	Source Only
Lithium	
m&p-Xylene	Source Only
Naphthalene	Source Only
o-Xylene	Source Only
Phenanthrene	Source Only
Phenol	
Pyrene	Source Only
Sodium	
Toluene	Source Only
TPH (C10-C28)	
Xylene (Total)	Source Only
Zinc	

Figure 2. COPCs only detected in Source Samples.

This resulted in a list of ten potential COPCs that were detected in the tributary or Opossum Creek following the incident:

- 2-methylphenol (o-cresol)
- Acetone
- Arsenic
- Bromide
- Chloride
- Lithium
- Phenol
- Sodium
- TPH (C10 – C28, DRO)
- Zinc

Detections for 2-methylphenol, arsenic, lithium, bromide, and phenol were 1-2 day events (Figure 3). None of these detections exceeded ecological screening values set by the Ohio EPA as being protective of aquatic life. None of these constituents have been detected since July 2 and all detections were localized to the area surrounding the wellpad.

2-Methylphenol (ug/L)				Bromide (mg/L)				
Location	Date	Results	SL	Location	Date	Results	SL	River
SW06	6/29/2014	1.5	230	SW17	7/1/2014	1.5	NE	Tributary
				SW18	7/1/2014	1.8	NE	

Arsenic (ug/L)				Lithium ug/L			
Location	Date	Results	SL	Location	Date	Results	SL
SW06	7/1/2014	5.4	150	SW06	6/29/2014	181	260

Phenol (ug/L)			
Location	Date	Results	SL
SW06	6/30/2014	1.7	400
SW06	7/02/2014	1.2	400

Figure 3. Detection of analytes immediately following incident.

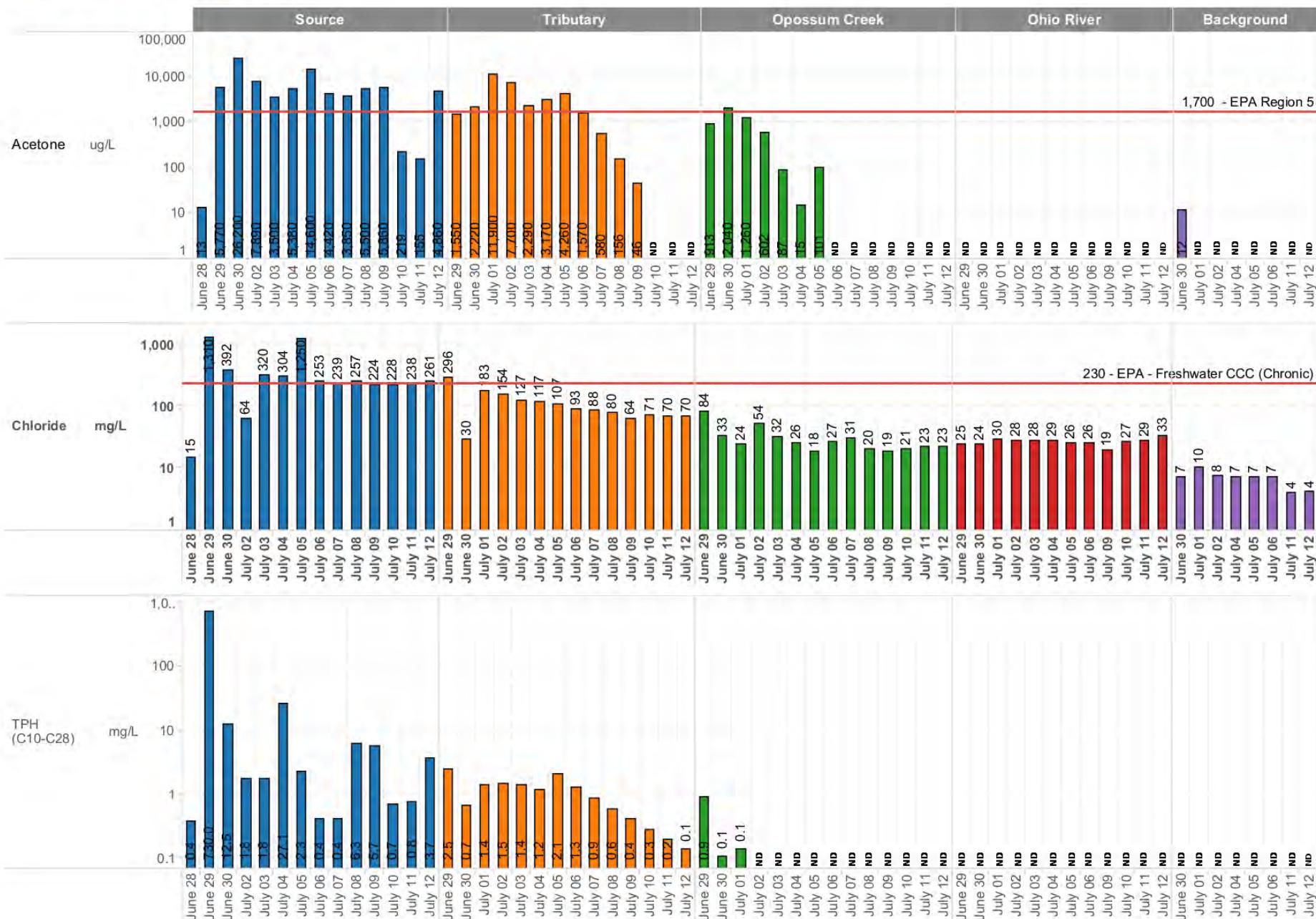
Additionally, zinc was only detected in 1 sample taken nearest to the wellpad directly following the incident on 6/29/2014 (Figure 4). However, it is regularly detected in low levels in the Ohio river, and is likely a result of the large amount of industrial work performed along the river. All detections have been below ecological screening values set by the Ohio EPA as being protective of aquatic life.

Zinc (ug/L)				
Location	Date	Results	SL	River
SW06	6/29/2014	13.7	120	Tributary
SW07	7/1/2014	11.4	120	
SW10	6/29/2014	13.5	120	
SW10	6/30/2014	12.2	120	Ohio
SW16	6/30/2014	11.4	120	

Figure 4. Zinc detections.

Based on these results, the primary COPCs as a result of the Ohio Operations Incident at Eisenbath pad include chlorides, acetone, and general organics (TPH-DRO). While at the onset of the incident, surface water acetone and chloride levels exceeded chronic exposure levels set by the OhioEPA to be protective of aquatic life, these levels have receded. No exceedances have been detected in soil samples, and sediment samples have likewise shown a regression in detections as shown in the pages below.

Maximum Detected Surface Water Sample Concentrations



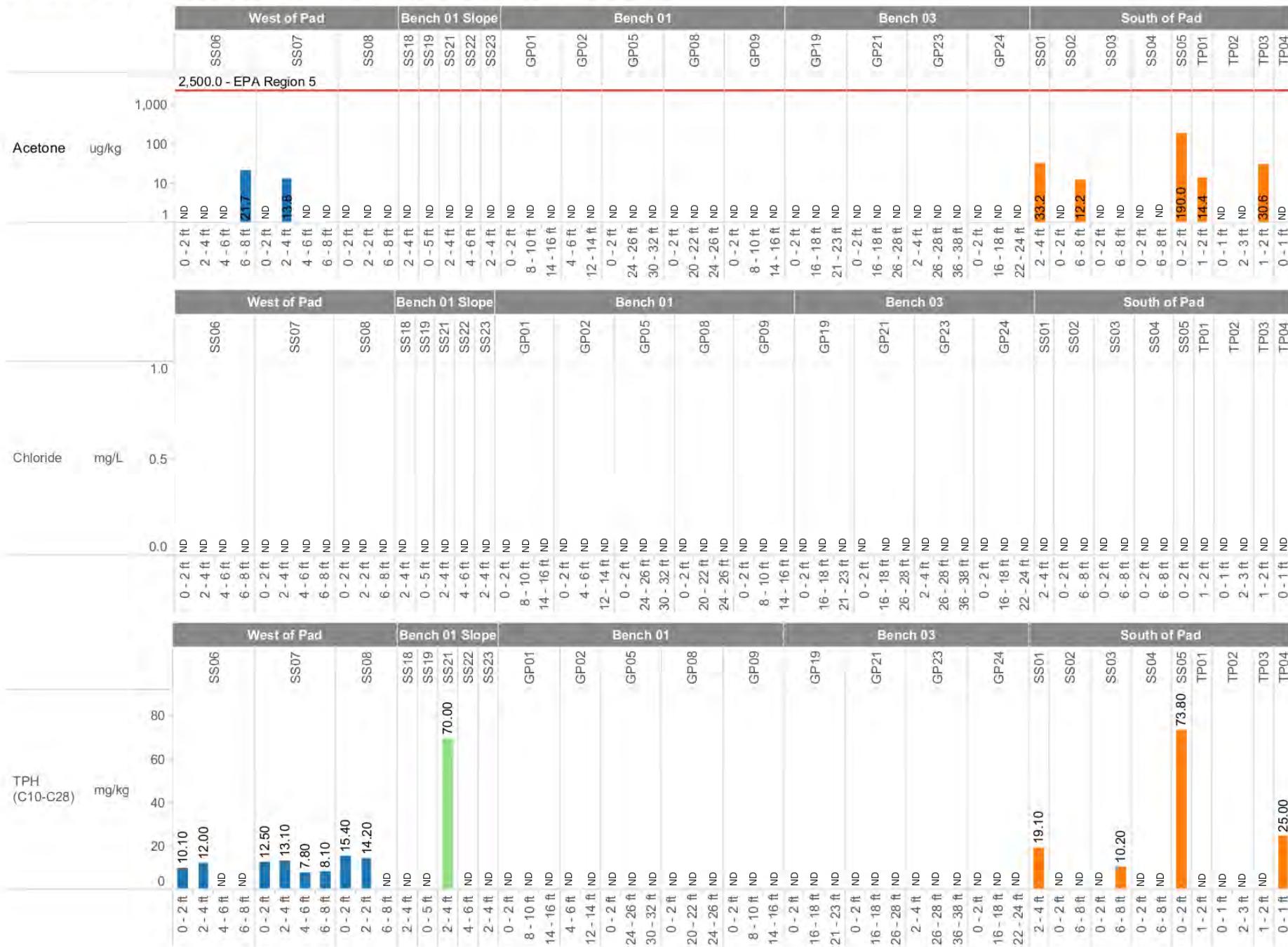
Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by Pace Laboratories

Detected Sediment Sample Concentrations: All



Maximum Detected Soil Sample Concentrations



3.0 Proposed Adjustment of Air & Environmental Sampling Location and Frequency

Based on the data provided, and current operational activities, the Environmental Unit, supporting Unified Command, proposed to adjust water, soil, and sediment collection activities.

Soil sampling activities will be completed on 7/18/2014 pending removal of equipment from the Eisenbath well pad. Soil sampling will be discontinued until pad analysis can be performed or site changes indicate a need for additional testing.

A follow-up sediment sampling will be performed along the upstream tributaries, tributary and Opossum Creek after a rain event of 0.5" or more. Sediment sampling along the Ohio River will be discontinued. Additional sediment sampling events may be needed pending these results.

Water sampling along the Ohio River will be discontinued. Opossum Creek and the unnamed tributary will be sampled every third day while the Eisenbath well-pad containment remains in place and until all equipment have been removed from the pad. Upon completion of surface remediation of the well-pad and removal of the containment, sampling along the tributary and Opossum Creek will occur daily for 5 days to ensure no changes in water quality after containment removal. Changes on site or rain activities may initiate additional sampling.

Sampling of well-pad run-off, including outflow pipes and drainage ditches, will continue and will be sampled every third day while the Eisenbath well-pad containment remains in place and until all equipment have been removed from the pad. Daily, outflows will be assessed for changes in odor, water flow, and water quality. If changes are seen, sampling will be initiated. Once all outflows show that the COPCs are below action levels set by the USEPA and the well pad remediation is complete, the containments may be removed. Sampling will continue daily for 5 days after containment removal to ensure no changes in water quality.

Sampling will be rotated on a daily basis:

- Day 1 - Run-off/Pad Sampling
- Day 2 - Tributary Sampling
- Day 3 - Opossum Creek Sampling
- Repeat

Maps of sampling locations are included in Appendix A.

In addition, based on the data discussed above all samples will only be tested for:

- TPH (DRO)
- VOCS (Acetone)
- SM4500 (Chloride)
- TTPC (Biocide)
- General Water Quality Readings

All other analyte testing will be discontinued. If changes on site warrant additional analytes, they will be added.

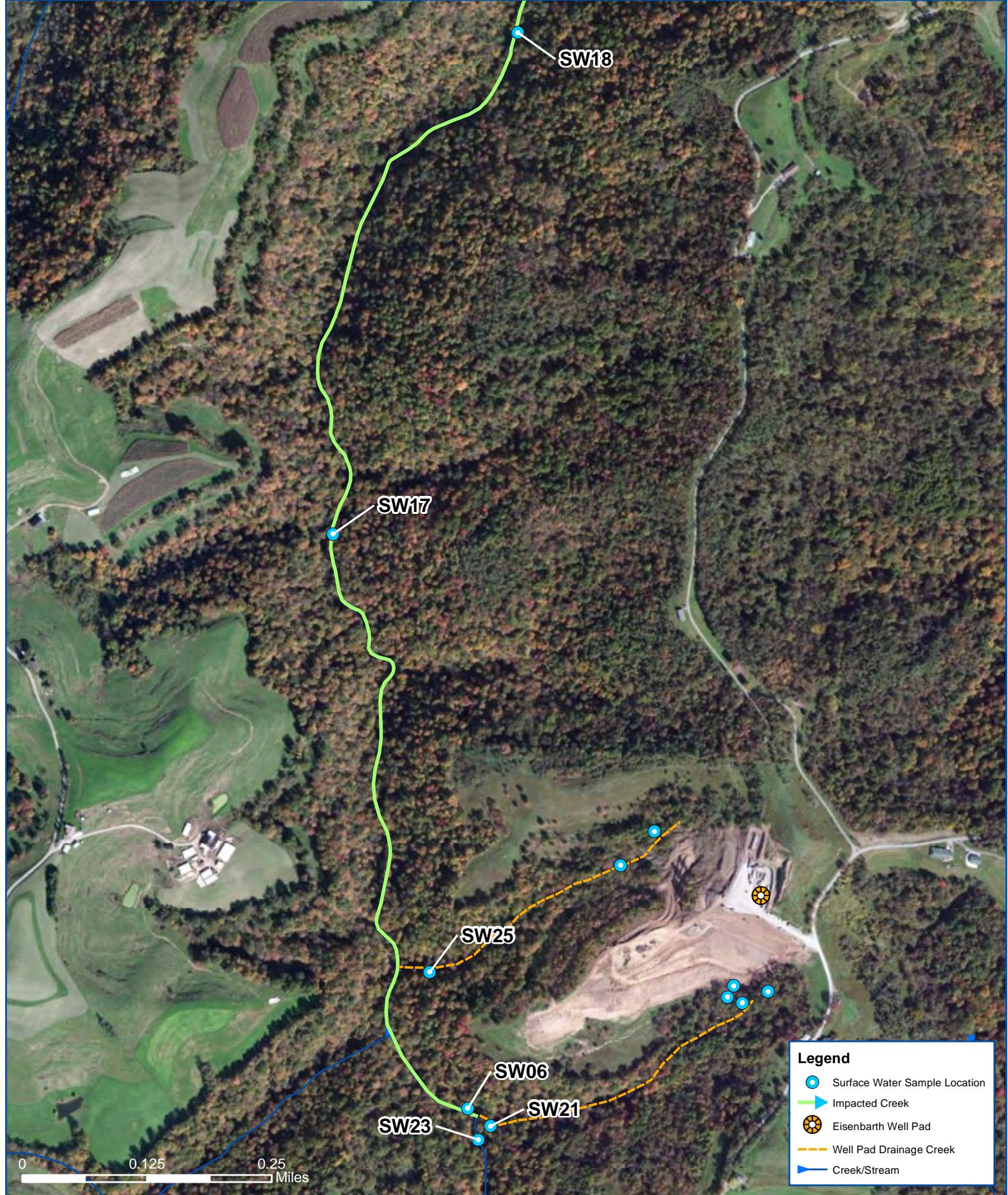
Based on the results to date, air monitoring in the community will be discontinued until operations on the pad commence. At that time, air monitoring will resume 48 hours before operations for particulate matter (PM10), VOCs, and crystalline silica. Air monitoring will continue until remediation operations on the pad are complete. Air monitoring on the pad will continue for PM10 and VOCs while remediation operations are ongoing. Crystalline silica will be added when operations move to disrupting the sand contained on the well-pad.

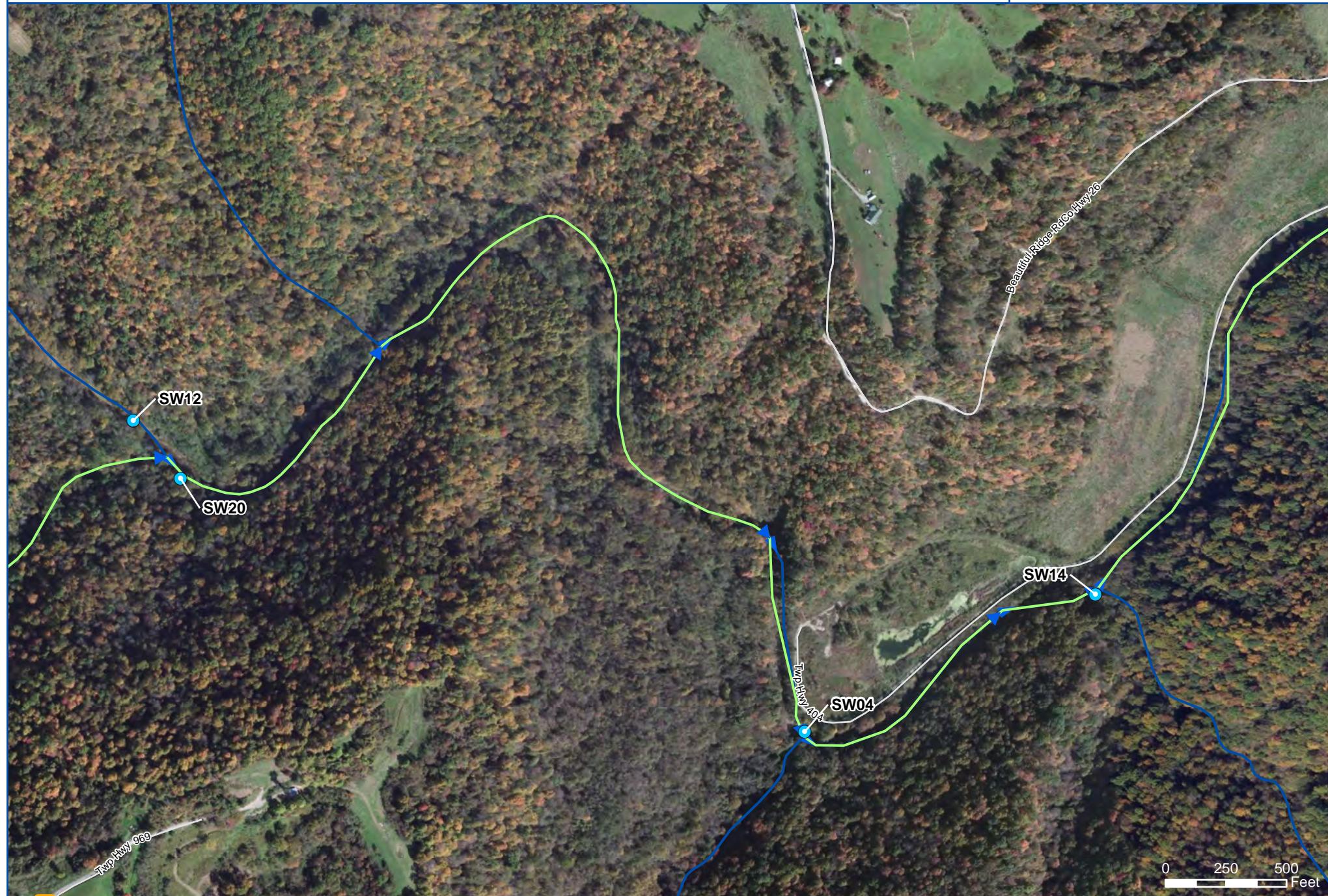
As recovery operations change, sampling frequency and locations will be modified accordingly pending review of analytical data and approval of UC. 2 day turn-around-time will be requested for all samples sent to the lab unless otherwise requested by the UC.

Attachment A:

Analytical Sampling Map







Ohio Operations Incident

Hannibal, OH

Water, Soil, and Sediment Sampling and Analysis Adjustment Plan

Version 1.0

Amendment #1

Prepared On Behalf Of:

Statoil

Prepared By:

Center for Toxicology and Environmental Health, L.L.C.

5120 North Shore Blvd

Little Rock, AR 72118

501-801-8500

	Position/Name	Signature	Date Signed
Prepared by:	Kyle Lawrence		
Submitted by EUL:			
Approved by RP-IC:			
Reviewed by: Ohio State EPA			
Reviewed by: Federal EPA			

The purpose of this addendum is to clarify the sampling location and frequency outlined in section 3.0 of the Water, Soil, and Sediment Sampling and Analysis Adjustment Plan Version 1.0. Table 1 identifies the locations that are sampled every three days and those that are sampled as needed or when changes in status of odor, water flow, and water quality are observed.

Table 1 Surface Water Sampling Locations

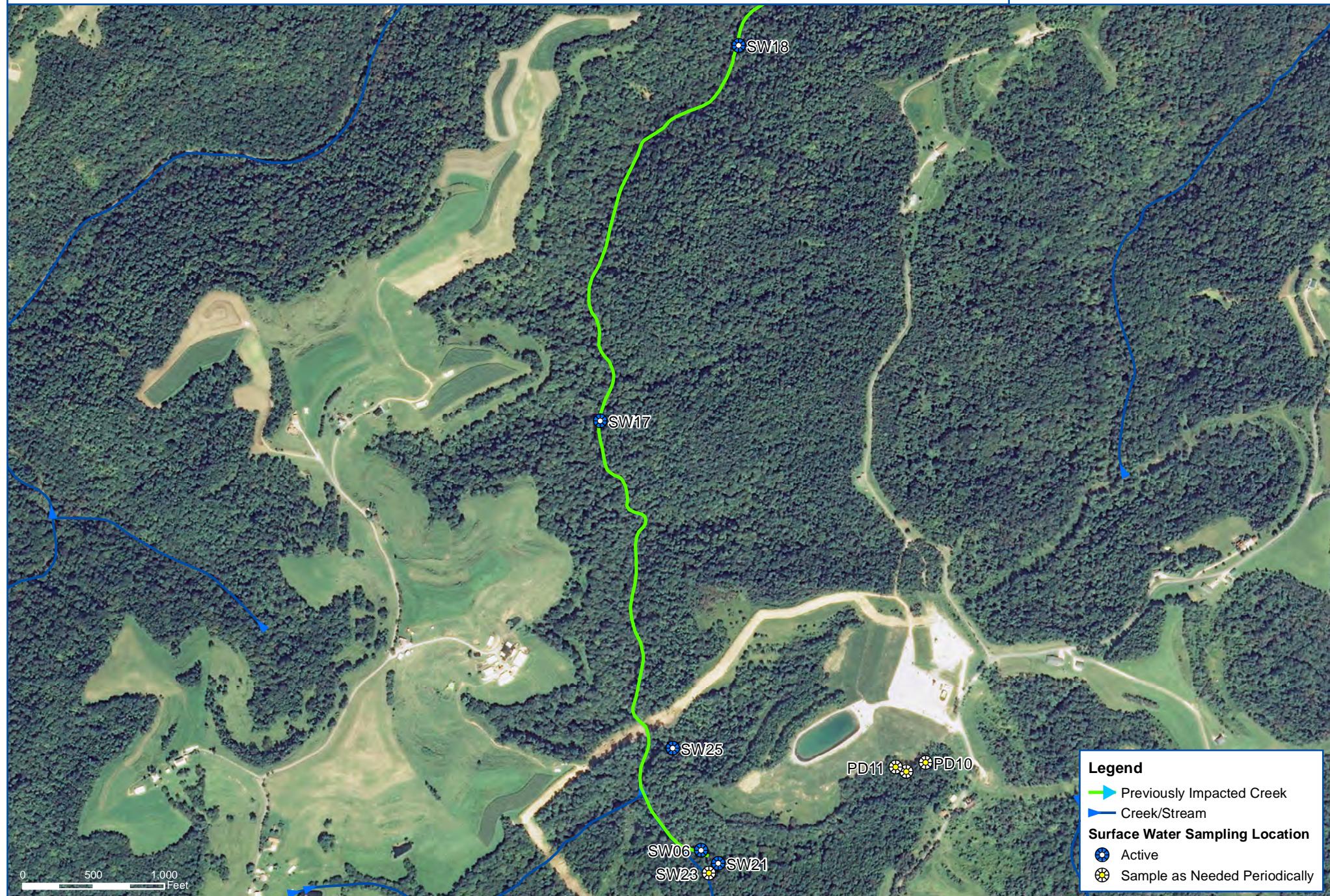
Sample Group	Location Description	Location IDs	Frequency
Day 1	Well Pad	PD03, PD07, SW24	Every Three Days
Day 2	Tributary	SW06, SW17, SW18, SW21, SW25	Every Three Days
Day 3	Opossum Creek	SW20, SW04, SW08	Every Three Days
Background Samples	Various	SW12, SW14, SW23	As Needed
Additional Outflow Samples	Well Pad	PD10, PD11, SW03	Periodically as changes in odor, water flow, and/or water quality are observed

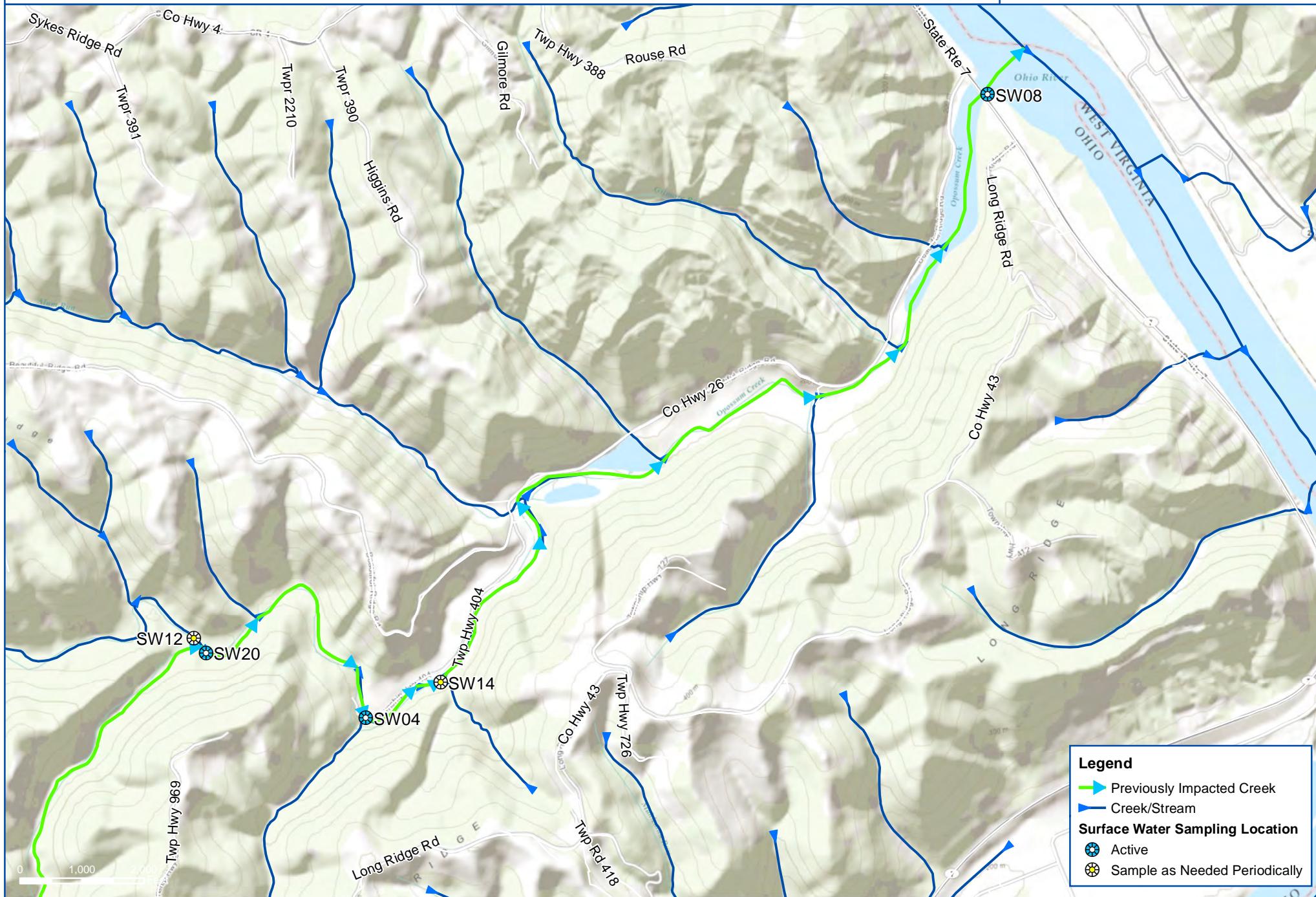
Appendix A provides maps that clarify the sampling location and frequency.

Appendix A

Maps







APPENDIX C

Data Summary Tables

Water and Sediment

APPENDIX C.1

Data Summary Tables

Water

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	GP08				GP23				GP24				GP26			
				July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	August 14, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Sulfate	Null	ug/L	39300	N/A	N/A	N/A	28000	N/A	43900	N/A	N/A	69200	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	310 U	N/A	N/A	N/A	310 U	N/A	310 U	N/A	N/A	530	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	170	N/A	N/A	N/A	15 U	N/A	180	N/A	N/A	15 U	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	270 U	N/A	N/A									
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	140	13 U	N/A	N/A	310	240	290	200	N/A	230	240	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	152 U	N/A	N/A									
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	N/A	N/A	0.16 U	0.16 U	0.16 U	0.16 U	N/A	0.16 U	0.16 U	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	0.14 U	0.14 U	N/A	N/A	0.14 U	0.14 U	0.14 U	0.14 U	N/A	0.14 U	0.14 U	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	0.19 U	N/A	N/A	0.19 U	0.19 U	0.19 U	0.19 U	N/A	0.19 U	0.19 U	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	0.23 U	0.23 U	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	N/A	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	N/A	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	0.14 U	0.14 U	N/A	N/A	0.14 U	0.14 U	0.14 U	0.14 U	N/A	0.14 U	0.14 U	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	N/A	N/A	0.38 U	0.38 U	0.38 U	0.38 U	N/A	0.38 U	0.38 U	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	N/A	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	N/A	N/A	0.26 U	0.26 U	0.26 U	0.26 U	N/A	0.26 U	0.26 U	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	0.17 U	0.17 U	N/A	N/A	0.17 U	0.17 U	0.17 U	0.17 U	N/A	0.17 U	0.17 U	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	1.1 U	1.1 U	N/A	N/A	1.1 U	1.1 U	1.1 U	1.1 U	N/A	1.1 U	1.1 U	N/A	N/A	1.1 U	1.1 U	N/A
	2-Hexanone	Null	ug/L	0.34 U	0.34 U	N/A	N/A	0.34 U	0.34 U	0.34 U	0.34 U	N/A	0.34 U	0.34 U	N/A	N/A	0.34 U	0.34 U	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	18.9	2.6 U	19.4	2.6 U	N/A	2.6 U	10.4	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	1	0.065 U	N/A	N/A	0.065 U	0.065 U	0.065 U	0.065 U	N/A	0.065 U	0.065 U	N/A	N/A	0.065 U	0.065 U	N/A
EPA 8260	Bromochloromethane	Null	ug/L	0.22 U	0.22 U	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	N/A	0.22 U	0.22 U	N/A	N/A	0.22 U	0.22 U	N/A
	Bromodichloromethane	Null	ug/L	0.15 U	0.15 U	N/A	N/A	0.15 U	0.15 U	0.15 U	0.15 U	N/A	0.15 U	0.15 U	N/A	N/A	0.15 U	0.15 U	N/A
	Bromoform	Null	ug/L	0.25 U	0.25 U	N/A	N/A	0.25 U	0.25 U	0.25 U	0.25 U	N/A	0.25 U	0.25 U	N/A	N/A	0.25 U	0.25 U	N/A
	Bromoform	Null	ug/L	0.37 U	0.37 U	N/A	N/A	0.37 U	0.37 U	0.37 U	0.37 U	N/A	0.37 U	0.37 U	N/A	N/A	0.37 U	0.37 U	N/A
EPA 8260	Carbon disulfide	15	ug/L	0.16 U	0.16 U	N/A	N/A	0.16 U	0.16 U	0.16 U	0.16 U	N/A	0.16 U	0.16 U	N/A	N/A	0.16 U	0.16 U	N/A
	Carbon tetrachloride	Null	ug/L	0.24 U	0.24 U	N/A	N/A												

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

Exceedance

No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

														PD03	
Method	Analyte	Screening Value	Units	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	Field Duplicate	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 19, 2014 Field Sample	July 22, 2014 Field Sample	July 25, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Sulfate	Null	ug/L	48200	53000 J	52600	44100	42900	56300 J	43300	48300	45400	N/A	N/A	
EPA 300.0	Bromide	Null	ug/L	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	N/A	N/A	
EPA 353.2	Fluoride	160	ug/L	180	130	120	120	120	130	120	120	120	N/A	N/A	
	Nitrate as N	10000	ug/L	170	150	150	170	170	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	50 U	50 U	50 U	50 U	50 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Aluminum	87	ug/L	61.8 J	74.3	87	59.8	53	16 U	16 U	681	69.5 J	N/A	N/A	
EPA 6010B	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	N/A	N/A	
	Arsenic	148	ug/L	3.6 U	6.2	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	N/A	N/A	
	Barium	220	ug/L	132	140	143	128	133	136	132	131	140	N/A	N/A	
	Beryllium	0.32	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	N/A	N/A	
EPA 6010B	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	N/A	N/A	
	Calcium	Null	ug/L	131000	136000	144000	128000	133000	134000	129000	125000	134000	N/A	N/A	
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	5.8	N/A	N/A	
	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	N/A	N/A	
EPA 7470A	Copper	1.58	ug/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	N/A	N/A	
	Iron	1000	ug/L	10.6 U	10.6 U	10.6 U	168	10.6 U	10.6 U	10.6 U	441	10.6 U	N/A	N/A	
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	N/A	N/A	
	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	N/A	
EPA 7470A	Magnesium	Null	ug/L	32400	33500	33900	30600	31600	32500	31100	31300	31800	N/A	N/A	
	Manganese	50	ug/L	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	5.1	46.4	12.4	N/A	N/A	
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	N/A	N/A	
	Potassium	373000	ug/L	1640	1750	1730	1580	1630	1660	1600	1720	1700	N/A	N/A	
EPA 8015	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	N/A	N/A	
	Sodium	Null	ug/L	11900	12700	13000	11400	11800	11900	11700	11200	11900	N/A	N/A	
	Strontium	1500	ug/L	608	641	680	613	634	645	639	606	649	N/A	N/A	
	T	100	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	N/A	N/A	
EPA 8015	Zinc	65.7	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	N/A	N/A	
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	N/A	N/A	
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	N/A	N/A	
EPA 8015C	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	TPH (C10-C28)	Null	ug/L	39 U	38 U	38 U	13 U	14 U	39 U	13 U	14 U	13 U	*	14 U	
	Acetone	1700	ug/L	N/A	N/A	N/A	0.22 U	0.22 U	N/A	0.22 U	0.22 U	0.22 U	0.22 U	13 U	
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,1-Dichloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.16 U	0.16 U	2.5 U	0.16 U	0.16 U	0.16 U	0.16 U	N/A	
	1,1,1-Trichloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.14 U	0.14 U	2.5 U	0.14 U	0.14 U	0.14 U	0.14 U	N/A	
	1,1,2-Tetrachloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.19 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	0.19 U	N/A	
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.23 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	0.22 U	0.22 U	N/A	0.22 U	0.22 U	0.22 U	0.22 U	N/A	
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.23 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	
	1,2-Dichloroethane	Null	ug/L	1 U	1 U	1 U	0.14 U	0.14 U	1 U	0.14 U	0.14 U	0.14 U	0.14 U	N/A	
	1,2-Dichloroethene (Total)	970	ug/L	2.5 U	2.5 U	2.5 U	0.38 U	0.38 U	2.5 U	0.38 U	0.38 U	0.38 U	0.38 U	N/A	
	1,2-Dichloropropane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.23 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	
EPA 8260	1,2-Trichloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.33 U	0.33 U	2.5 U	0.33 U	0.33 U	0.33 U	0.33 U	N/A	
	1,3-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.26 U	0.26 U	2.5 U	0.26 U	0.26 U	0.26 U	0.26 U	N/A	
	1,4-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.17 U	0.17 U	2.5 U	0.17 U	0.17 U	0.17 U	0.17 U	N/A	
	2-Butanone (MEK)	2200	ug/L	12 U	12 U	12 U	137 J	34.5 J	836	1.1 U	1.1 U	1.1 U	1.1 U	N/A	
EPA 8260	2-Hexanone	Null	ug/L	12 U	12 U	12 U	0.34 U	0.34 U	12 U	0.34 U	0.34 U	0.34 U	0.34 U	N/A	
	Acetone	1700	ug/L	50 U	50 U	50 U	110 J	26.8 J	988	2.6 U					
	Benzene	114	ug/L	1 U	2.5 U	1 U	0.065 U	0.065 U	2.5 U	0.065 U	0.065 U	0.065 U	0.065 U	N/A	
	Bromochloromethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.22 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	0.22 U	N/A	
EPA 8260	Bromodichloromethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.15 U	0.15 U	2.5 U	0.15 U	0.15 U	0.15 U	0.15 U	N/A	
	Bromoform	Null	ug/L	2.5 U	2.5 U	2.5 U	0.25 U	0.25 U	2.5 U	0.25 U	0.25 U	0.25 U	0.25 U	N/A	
	Bromoform	Null	ug/L	2.5 U	2.5 U	2.5 U	0.37 U	0.37 U	2.5 U	0.37 U	0.37 U	0.37 U	0.37 U	N/A	
	Carbon disulfide	15	ug/L	5 U	5 U	5 U	0.16 U	0.16 U	5 U	0.16 U	0.16 U	0.16 U	0.16 U	N/A	
EPA 8260	Carbon tetrachloride	Null	ug/L	2.5 U	2.5 U	2.5 U	0.24 U	0.24 U	2.5 U	0.24 U	0.24 U	0.24 U	0.24 U	N/A	
	Chlorobenzene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.12 U	0.12 U	2.5 U	0.12 U	0.12 U	0.12 U	0.12 U	N/A	
	Chloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.48 U	0.48 U	2.5 U	0.48 U	0.48 U	0.48 U	0.48 U	N/A	
	Chloroform	Null	ug/L	2.5 U	2.5 U	2.5 U	0.16 U	0.16 U	2.5 U	0.16 U	0.16 U	0.16 U	0.16 U	N/A	
EPA 8260	Chloromethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.21 U	0.21 U	2.5 U	0.21 U	0.21 U	0.21 U	0.21 U	N/A	
	cis-1,2-Dichloroethene	590	ug/L	2.5 U	2.5 U	2.5 U	0.2 U	0.2 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	
	cis-1,3-Dichloropropene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.19 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	0.19 U	N/A	
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Dibromochloromethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.22 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	0.22 U	N/A	
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Ethylbenzene	14	ug/L	2.5 U	2.5 U	2.5 U	0.12 U	0.12 U	2.5 U	0.12 U					

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	July 27, 2014			July 28, 2014			July 31, 2014			August 3, 2014			August 6, 2014		August 9, 2014		August 12, 2014		August 15, 2014		August 18, 2014		August 21, 2014				
				Field Sample			Field Sample			Field Sample			Field Sample			Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		
6020	Calcium	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Magnesium	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Potassium	373000	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Sodium	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
9014	Cyanide	5.2	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Bromide	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Chloride	230000	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Fluoride	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
9056A	Nitrate as N	10000	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Nitrite as N	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Orthophosphate as P	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Sulfate	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
ASTM D516-90...	Bromide	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Fluoride	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Nitrate as N	10000	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Nitrite as N	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 300.0	Aluminum	87	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Antimony	80	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Arsenic	148	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Barium	220	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 353.2	Beryllium	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Cadmium	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Calcium	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Chromium	42	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 6010B	Cobalt	24	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Copper	1.58	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Iron	1000	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Lead	1.17	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 7470A	Lithium	14	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Magnesium	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Manganese	50	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Nickel	28.9	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 8015	Potassium	373000	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Silver	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Sodium	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Strontium	1500	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 8015C	T	100	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Zinc	65.7	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Mercury	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Acetone	1700	ug/L	N/A			N/A			N/A			N/A			N/A		270 U		270 U		270 U		270 U		270 U		270 U		
EPA 8260	Ethylene glycol	192000	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	ISOPROPYL ALCOHOL	Null	ug/L	N/A			N/A			N/A			N/A			N/A		152 U		152 U		152 U		152 U		152 U		152 U		
	TPH (C10-C28)	Null	ug/L	14 U			14 U			14 U			14 U			14 U		15 U		15 U		15 U		15 U		15 U		15 U		
	Acetone	1700	ug/L	N/A			N/A			N/A			N/A			N/A		415 J		471 J		N/A		N/A		N/A		N/A		N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A			N/A			N/A			N/A			N/A		152 U		N/A		N/A		N/A		N/A		N/A		
	1,1-Dichloroethane	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,1,1-Trichloroethane	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,1,2-Tetrachloroethane	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 8260	1,1,2-Trichloroethane	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,1,2,2-Tetrafluoroethane	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,2-Dichloroethene	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,2-Dichloroethene (Total)	970	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,2-Dichloropropane	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 8260	1,2-Trichloroethene	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,3-Dichlorobenzene	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	1,4-Dichlorobenzene	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	2-Butanone (MEK)	2200	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
EPA 8260	2-Hexanone	Null	ug/L	N/A			N/A			N/A			N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Acetone	1700	ug/L	2.6 U			2.6 U			2.6 U			3360			533		505		52		2.6 U		2.6 U		75.4		2.6 U		2.6 U

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PPD3											
				August 24, 2014 Field Sample	August 27, 2014 Field Sample	August 30, 2014 Field Sample	August 31, 2014 Field Sample	September 2, 2014 Field Sample	September 5, 2014 Field Sample	September 8, 2014 Field Sample	September 11, 2014 Field Sample	September 14, 2014 Field Sample	September 17, 2014 Field Sample	September 20, 2014 Field Sample	September 23, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U				
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U				
	TPH (C10-C28)	Null	ug/L	14 U	40 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U				
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PPD3											
				September 26, 2014 Field Sample	September 29, 2014 Field Sample	October 2, 2014 Field Sample	October 5, 2014 Field Sample	October 8, 2014 Field Sample	October 11, 2014 Field Sample	October 14, 2014 Field Sample	October 15, 2014 Field Sample	October 18, 2014 Field Sample	October 21, 2014 Field Sample	October 24, 2014 Field Sample	October 27, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	14 U	15 U	14 U	15 U	13 U	15 U	13 U	15 U	13 U	15 U	14 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	PD03					PD04					PD05					PD06				
				October 30, 2014 Field Sample	November 2, 2014 Field Sample	November 5, 2014 Field Sample	November 8, 2014 Field Sample	November 11, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 4, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 7, 2014 Field Sample					
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	33000 J	N/A	N/A	N/A	N/A										
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	54000 J	N/A	N/A	N/A	N/A										
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	96000 J	N/A	N/A	N/A	N/A										
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	180000 J	N/A	N/A	N/A	N/A										
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	3.9 J	N/A	N/A	N/A	N/A										
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	3800	N/A	N/A	N/A	N/A										
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	320000	N/A	N/A	N/A	N/A										
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	51000	N/A	N/A	N/A	N/A										
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	31 U	N/A	N/A	N/A	N/A										
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	120 U	N/A	N/A	N/A	N/A										
ASTM D516-90...	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	390 U	N/A	N/A	N/A	N/A										
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	49000	N/A	N/A	N/A	N/A										
EPA 300.0	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	1000 U	62800	95500	87600	90200	94100									
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	2300 J	310 U	2700 J	2700	2500	2400 J									
EPA 353.2	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	370	580	180	190	190	190									
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	51000	N/A	N/A	N/A	N/A										
EPA 6010B	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	196 J	10400 J	16 U	51.3	16 U	16 U									
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	3.9 U														
EPA 7470A	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	6.6	6.1	3.6 U	3.6 U	3.6 U	3.6 U									
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	2020	170	257	316	237	221									
EPA 8015	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.32 U														
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.44 U														
EPA 8015C	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	200000	69200	223000	274000	210000	203000									
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	0.93 U														
EPA 8260	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	0.72 U	0.72 U	7.9	9.3	7.1	6.3									
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	19 U	14.8	19 U	19 U	19 U	19 U									
EPA 8260	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	7120	1200	1340	1410	1090	773									
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	2.7 U	5.6	3.7 U	3.7 U	3.7 U	3.7 U									
EPA 8260	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	40100	23000	54400	65400	51400	49400									
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	3120	260	5840	6990	5210	4920									
EPA 8260	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	0.88 U	13.1	10.6	13.9	10.8	0.88 U									
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	30400	4920	3930	4650	3500	3200									
EPA 8260	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	0.53 U														
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	50500	12500	65800	73600	52700	47500									
EPA 8260	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	12000	514	1160	1390	1010	938									
	Tin	100	ug/L	N/A	N/A	N/A	N/A	N/A	5.0 U	1.5 U													
EPA 8260	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	188	253	1.2 U	1.2 U	1.2 U	1.2 U									
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.025 U														
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	280000 U	52000 J	2800 UJ	2800 UJ	6200 J	5000 U	5000 U								
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	27100 J	140 J	400 J	440	420	430									
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	64 U	64 U	0.23 U	0.23 U	0.23 U	0.23 U									
	TPH (C10-C28)	Null	ug/L	14 U	64 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U													
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	79 U	33.3 U	0.33 U	0.33 U	0.33 U	0.33 U									
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	54 U	3.1	0.16 U	0.16 U	0.16 U	0.16 U									
EPA 8260	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	34 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U									
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	48 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U									
EPA 8260	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	53 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U									
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	51 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U									
EPA 8260	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	17 U	N/A	N/A	N/A	N/A	N/A									
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	58 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U									
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	47 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U									
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	18 U	N/A	N/A	N/A	N/A	N/A									
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	31 U	N/A	N/A	N/A	N/A	N/A									
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	34 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U									
EPA 8260	1,2-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	48 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U									
	1,2-Dichloroethane (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	0.38 U														
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	64 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U									
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	19 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U									
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	25 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U									
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	26 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U									
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	54 U	72.1	1.1 U	1.1 U	1.1 U	1.1 U									
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	28 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U									
EPA 8260	Acetone	1700	ug/L	2.6 U	470 J	270	2.6 U	5380	5320	4420	3850												
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	49 U	1.2	0.065 U	0.065 U	0.065 U	0.065 U									
EPA 8260	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	50 U	0.16 U	0.16 U	0.16 U	0.16 U										

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

PD07

Method	Analyte	Screening Value	Units	July 8, 2014	July 9, 2014	July 12, 2014	July 13, 2014	July 14, 2014	July 15, 2014	July 16, 2014	July 17, 2014	July 18, 2014	July 19, 2014	July 22, 2014	
				Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Duplicate	Field Sample	Field Sample	Field Sample	
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Sulfate	Null	ug/L	*	98400	103000 J	113000	120000 J	94500	94500	95000	93600	N/A	N/A	
EPA 300.0	Bromide	Null	ug/L	*	2100	1800	1600	1800 J	1700	1800	1700 J	1700 J	N/A	N/A	
	Fluoride	Null	ug/L	*	190	200	200	220	200	210	200	200	N/A	N/A	
	Nitrate as N	10000	ug/L	N/A	50 U	50 U	50 U	50 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	50 U	50 U	50 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 353.2	Aluminum	87	ug/L	*	16 U	57.3	106	179	99.9	106	79.6	90.4	16 U	N/A	
	Antimony	80	ug/L	*	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	N/A	N/A	
	Arsenic	148	ug/L	*	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	N/A	N/A	
	Barium	220	ug/L	*	209	235	226	185	195	188	196	187	201	N/A	N/A
EPA 6010B	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	N/A	N/A	
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	N/A	N/A	
	Calcium	Null	ug/L	*	187000	212000	204000	175000	182000	173000	179000	169000	175000	N/A	N/A
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	N/A	N/A
EPA 7470A	Cobalt	24	ug/L	*	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	N/A	N/A	
	Copper	1.58	ug/L	*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	N/A	N/A	
	Iron	1000	ug/L	*	237	93.9	153	175	449	163	132	10.6 U	85.7	N/A	N/A
	Lead	1.17	ug/L	*	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	N/A	N/A	
EPA 8015	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	N/A	N/A
	Magnesium	Null	ug/L	*	44600	50200	46600	42100	43100	41400	43000	42100	40800	N/A	N/A
	Manganese	50	ug/L	*	3800	2940	2850	2070	2280	1490	1560	823	467	N/A	N/A
	Nickel	28.9	ug/L	*	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	N/A	N/A	
EPA 8015C	Potassium	373000	ug/L	*	2950	3370	3770	3170	2780	2570	2680	2520	2680	N/A	N/A
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	N/A	N/A
	Sodium	Null	ug/L	*	41400	43800	40500	32200	35500	34900	36500	34000	34000	N/A	N/A
	Strontium	1500	ug/L	*	870	939	921	942	863	832	856	795	831	N/A	N/A
EPA 8015	Tin	160	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	N/A	N/A
	Zinc	65.7	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	N/A	N/A
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	*	320	290	590	240	240	200	250	200	180	*	140
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	2.5 U	2.5 U	0.16 U	2.5 U	0.16 U	0.16 U	0.16 U	0.16 U	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	0.14 U	0.14 U	2.5 U	2.5 U	0.14 U	2.5 U	0.14 U	0.14 U	0.14 U	0.14 U	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	0.19 U	2.5 U	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	0.19 U	N/A	N/A
EPA 8260	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	2.5 U	2.5 U	N/A	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	0.23 U	0.23 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	0.22 U	0.22 U	N/A	N/A	0.22 U	N/A	0.22 U	0.22 U	0.22 U	0.22 U	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	0.14 U	0.14 U	1 U	1 U	0.14 U	1 U	0.14 U	0.14 U	0.14 U	0.14 U	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	2.5 U	2.5 U	0.38 U	2.5 U	0.38 U	0.38 U	0.38 U	0.38 U	N/A	N/A
EPA 8260	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	0.33 U	0.33 U	2.5 U	2.5 U	0.33 U	2.5 U	0.33 U	0.33 U	0.33 U	0.33 U	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	2.5 U	2.5 U	0.26 U	2.5 U	0.26 U	0.26 U	0.26 U	0.26 U	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	0.17 U	0.17 U	2.5 U	2.5 U	0.17 U	2.5 U	0.17 U	0.17 U	0.17 U	0.17 U	N/A	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	1.1 U	1.1 U	12 U	12 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	N/A
	2-Hexanone	Null	ug/L	0.34 U	0.34 U	12 U	12 U	0.34 U	12 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	N/A
	Acetone	1700	ug/L	*	2790	2180	802	368	247 J	145	26 U	26 U	26 U	*	225
	Benzene	114	ug/L	0.065 U	0.065 U	2.5 U	1 U	0.065 U	2.5 U	0.065 U	0.065 U	0.065 U	0.065 U	N/A	N/A
EPA 8260	Bromochloromethane	Null	ug/L	0.22 U	0.22 U	2.5 U	2.5 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	0.22 U	N/A	N/A
	Bromodichloromethane	Null	ug/L	0.15 U	0.15 U	2.5 U	2.5 U	0.15 U	2.5 U	0.15 U	0.15 U	0.15 U	0.15 U	N/A	N/A
	Bromofrom	Null	ug/L	0.25 U	0.25 U	2.5 U	2.5 U	0.25 U	2.5 U	0.25 U	0.25 U	0.25 U	0.25 U	N/A	N/A
	Bromoform	Null	ug/L	0.37 U	0.37 U	2.5 U	2.5 U	0.37 U	2.5 U	0.37 U	0.37 U	0.37 U	0.37 U	N/A	N/A
EPA 8260	Carbon disulfide	15	ug/L	0.16 U	0.16 U	5 U	5 U	0.16 U	5 U	0.16 U	0.16 U	0.16 U	0.16 U	N/A	N/A
	Carbon tetrachloride	Null	ug/L	0.24 U	0.24 U	2.5 U	2.5 U	0.24 U	2.5 U	0.24 U	0.24 U	0.24 U	0.24 U	N/A	N/A
	Chlorobenzene	Null	ug/L	0.12 U	0.12 U	2.5 U	2.5 U	0.12 U	2.5 U	0.12 U	0.12 U	0.12 U	0.12 U	N/A	N/A
	Chloroethane	Null	ug/L	0.48 U	0.48 U	2.5 U	2.5 U	0.48 U	2.5 U	0.48 U	0.48 U	0.48 U	0.48 U	N/A	N/A
EPA 8260	Chloroform	Null	ug/L	0.16 U	0.16 U	2.5 U	2.5 U	0.16 U	2.5 U	0.16 U	0.16 U	0.16 U	0.16 U	N/A	N/A
	Chloromethane	Null	ug/L	0.21 U	0.21 U	2.5 U	2.5 U	0.21 U	2.5 U	0.21 U	0.21 U	0.21 U	0.21 U	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	0.2 U	0.2 U	2.5 U	2.5 U	0.2 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	0.19 U	0.19 U	2.5 U	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	0.19 U	N/A	N/A
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	0.22 U</td											

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color
■ Detection
■ Exceedance
■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD07												
				August 21, 2014 Field Sample	August 24, 2014 Field Sample	August 27, 2014 Field Sample	August 30, 2014 Field Sample	August 31, 2014 Field Sample	September 2, 2014 Field Sample	September 5, 2014 Field Sample	September 8, 2014 Field Sample	September 11, 2014 Field Sample	September 14, 2014 Field Sample	September 17, 2014 Field Sample	September 20, 2014 Field Sample	
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 7470A	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8015	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8015C	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U						
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	TPH (C10-C28)	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U					
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	162	2.6 U	2.6 U	1050	41.7	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
EPA 8260	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD07											
				September 23, 2014 Field Sample	September 26, 2014 Field Sample	September 29, 2014 Field Sample	October 2, 2014 Field Sample	October 5, 2014 Field Sample	October 8, 2014 Field Sample	October 11, 2014 Field Sample	October 14, 2014 Field Sample	Field Duplicate	October 15, 2014 Field Sample	October 18, 2014 Field Sample	October 21, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8260	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	130	13 U	15 U	14 U	13 U	180 J	240	110	110	240	130 J	130 J
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
EPA 8260	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

PD07												PD08			PD09		PD10		PW05	
Method	Analyte	Screening Value	Units	October 24, 2014 Field Sample	October 27, 2014 Field Sample	October 30, 2014 Field Sample	November 2, 2014 Field Sample	November 5, 2014 Field Sample	November 8, 2014 Field Sample	November 11, 2014 Field Sample	July 5, 2014 Field Sample	July 5, 2014 Field Sample	July 8, 2014 Field Sample	June 29, 2014 Field Sample	June 28, 2014 Field Sample					
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
9014	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
ASTM D516-90...	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Sulfate	Null	ug/L	N/A	N/A	35000	13100	63400	N/A	N/A	25800	N/A								
EPA 300.0	Sulfate	Null	ug/L	N/A	5600	11300	2500	N/A	310 U	N/A	N/A	N/A								
	Bromide	Null	ug/L	N/A	500	210	370	N/A	140	N/A	N/A	N/A								
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
EPA 353.2	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Aluminum	6.7	ug/L	N/A	N/A	1750	16 U	2650	5800	498	N/A	N/A								
EPA 6010B	Antimony	60	ug/L	N/A	N/A	7.8	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U								
	Arsenic	148	ug/L	N/A	N/A	3.6 U	12	10.3	3.6 U	3.6 U	3.6 U	3.6 U								
	Barium	220	ug/L	N/A	N/A	126	1430	556	111	238	N/A	N/A								
EPA 7470A	Beryllium	Null	ug/L	N/A	N/A	150	1.9 U	9.3	1.9 U	1.9 U	1.9 U	1.9 U								
	Cadmium	Null	ug/L	N/A	N/A	10.6 U	1650	3810	4260	374	N/A	N/A								
	Calcium	Null	ug/L	N/A	N/A	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U								
EPA 8015	Chromium	42	ug/L	N/A	N/A	17.9	0.93 U	0.93 U	8.2	0.93 U	0.93 U	0.93 U								
	Cobalt	24	ug/L	N/A	N/A	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U								
	Copper	1.58	ug/L	N/A	N/A	150	1.9 U	9.3	1.9 U	1.9 U	1.9 U	1.9 U								
EPA 8015C	Iron	1000	ug/L	N/A	N/A	172	1.2 U	28.8	11.1	28.9	28.9	N/A								
	Lead	117	ug/L	N/A	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U								
	Lithium	14	ug/L	N/A	N/A	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U								
EPA 8260	Magnesium	Null	ug/L	N/A	N/A	16.2	2180	1260	69.1	12.3	N/A	N/A								
	Manganese	50	ug/L	N/A	N/A	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U								
	Nickel	28.9	ug/L	N/A	N/A	3100	20600	12000	3310	2540	N/A	N/A								
EPA 8260	Potassium	373000	ug/L	N/A	N/A	16600	542000	72000	11200	14600	N/A	N/A								
	Silver	Null	ug/L	N/A	N/A	754	14300	3620	261	441	N/A	N/A								
	Sodium	Null	ug/L	N/A	N/A	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U								
EPA 8260	Strontium	1500	ug/L	N/A	N/A	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U								
	Tin	180	ug/L	N/A	N/A	172	1.2 U	28.8	11.1	28.9	N/A	N/A								
	Zinc	65.7	ug/L	N/A	N/A	172	1.2 U	28.8	11.1	28.9	N/A	N/A								
EPA 7470A	Mercury	Null	ug/L	N/A	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U								
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Ethylene glycol	62000	ug/L	N/A	N/A	2800 U	2500 U	5000 U	N/A	N/A	N/A	N/A								
EPA 8015C	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	TPH (C10-C28)	Null	ug/L	170 J	120	13 U	110	13 U	13 U	13 U	13 U	400	2300 J	3800	14 U	390	N/A	N/A		
	Acetone	1700	ug/L	270 U	270 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
EPA 8015C	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U		
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U								
	1,1-Dichloroethene	Null	ug/L	N/A	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U								
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U								
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U								
	1,1,2,1-Tetrachloroethane	Null	ug/L	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U								
EPA 8260	1,1,2,2-Tetrifluoroethane	Null	ug/L	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U								
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U								
	1,1,2,2-Dibromoethane	Null	ug/L	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U								
EPA 8260	1,1,2-Dibromoethane	Null	ug/L	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U								
	1,1,2-Dibromoethene	Null	ug/L	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U								
	1,1,2,2-Dibromoethene	Null	ug/L	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U								
EPA 8260	1,1-Dichloroethane	Null	ug/L	N/A	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U								
	1,1-Dichloroethene	Null	ug/L	N/A	N/A	0.38 U	6.7	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U								
	1,1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U								
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U								
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U								
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U								
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U								
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	1.1 U	30.9	24.2	1.1 U	1.1 U	1.1 U	1.1 U								
	2-Hexanone	Null	ug/L	N/A	N/A	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U								
EPA 8260	2,2,2-Trifluoroethane	1700	ug/L	2.6 U	2.6 U	46800	1270	2.6 U	12.9	12.9	N/A	N/A								
	Benzene	114	ug/L	N/A	N/A	0.065 U	4.8	0.065 U	0.065 U	3.3	N/A	N/A								
	Bromochloromethane	Null	ug/L	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U								
EPA 8260	Bromodichloromethane	Null	ug/L	N/A	N/A	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U								
	Bromoform	Null	ug/L	N/A	N/A	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U								
	Bromomethane	Null	ug/L	N/A	N/A	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U								
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U								
	Carbon tetrachloride	Null	ug/L	N/A	N/A	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U								
	Chlorobenzene	Null	ug/L	N/A	N/A	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U								
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U								
	Chloroform	Null	ug/L	N/A	N															

H - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

color

Detection

Exceedance
Non-Partic

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW02		SW03		SW04			
				June 29, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	August 31, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	July 2, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	78300	N/A	N/A	N/A	25200	24400	25000	24500
EPA 300.0	Bromide	Null	ug/L	10400	N/A	3700	N/A	310 U	310 U	310 U	310 U
EPA 353.2	Fluoride	Null	ug/L	150 U	N/A	75 U	N/A	100	110	110	110
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	245	79.1	85.5	N/A	69.4	185	232	123 J
EPA 6010B	Antimony	80	ug/L	20	12.3	3.9 U	N/A	3.9 U	3.9 U	3.9 U	3.9 U
	Arsenic	148	ug/L	3.6 U	5.1	3.6 U	N/A	3.6 U	3.6 U	3.6 U	3.6 U
	Barium	220	ug/L	637	594	336	N/A	85	73.4	63.4	64 J
	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	N/A	0.32 U	0.32 U	0.32 U	0.32 U
EPA 7470A	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	N/A	0.44 U	0.44 U	0.44 U	0.44 U
	Calcium	Null	ug/L	88400	218000	168000	N/A	50900	47300	39900	37000
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	N/A	0.93 U	0.93 U	0.93 U	0.93 U
	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	N/A	0.72 U	0.72 U	0.72 U	0.72 U
EPA 8015	Copper	1.58	ug/L	10.6	14	6.9	N/A	1.9 U	1.9 U	1.9 U	1.9 U
	Iron	1000	ug/L	846	770	125	N/A	78.2	265	181	95.2 J
	Lithium	1.17	ug/L	3.7 U	3.7 U	3.7 U	N/A	3.7 U	3.7 U	3.7 U	3.7 U
	Magnesium	14	ug/L	503	1120	66.1	N/A	0.82 U	0.82 U	0.82 U	0.82 U
EPA 8015C	Manganese	50	ug/L	83	257	1270	N/A	18.5	25.4	20.8	21.3 J
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	N/A	0.88 U	0.88 U	0.88 U	0.88 U
	Potassium	373000	ug/L	9550	22400	15800	N/A	3040	2510	2240	2350
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	N/A	0.53 U	0.53 U	0.53 U	0.53 U
EPA 8260	Sodium	Null	ug/L	262000	596000	147000	N/A	36400	14500	12100	11800 J
	Strontium	1500	ug/L	5720	14700	3940	N/A	410	260	223	229 J
	T	100	ug/L	15 U	15 U	15 U	N/A	1.5 U	1.5 U	1.5 U	1.5 U
	Zinc	65.7	ug/L	139	125	26	N/A	1.2 U	1.2 U	1.2 U	1.2 U
EPA 7470A	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	N/A	0.025 U	0.025 U	0.025 U	0.025 U
	Acetone	1700	ug/L	N/A	N/A	N/A	270 U	N/A	N/A	N/A	N/A
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	152 U	N/A	N/A	N/A	N/A
EPA 8015C	TPH (C10-C28)	Null	ug/L	730000	9300	12500	N/A	340	930	110	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	0.16 U	N/A	0.16 U	0.16 U	0.16 U	0.16 U
EPA 8015C	1,1,1-Trichloroethane	Null	ug/L	0.14 U	0.14 U	0.14 U	N/A	0.14 U	0.14 U	0.14 U	0.14 U
	1,1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	0.19 U	0.19 U	N/A	0.19 U	0.19 U	0.19 U	0.19 U
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	0.23 U	0.23 U	0.23 U	N/A	0.23 U	0.23 U	0.23 U	0.23 U
EPA 8260	1,1,2,2-Tetrachloroethene	Null	ug/L	0.22 U	0.22 U	0.22 U	N/A	0.22 U	0.22 U	0.22 U	0.22 U
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	0.23 U	N/A	0.23 U	0.23 U	0.23 U	0.23 U
EPA 8015C	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	0.38 U	N/A	0.38 U	0.38 U	0.38 U	0.38 U
	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	0.23 U	N/A	0.23 U	0.23 U	0.23 U	0.23 U
	1,2-Trichloroethane	Null	ug/L	0.33 U	0.33 U	0.33 U	N/A	0.33 U	0.33 U	0.33 U	0.33 U
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	0.26 U	N/A	0.26 U	0.26 U	0.26 U	0.26 U
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	0.17 U	0.17 U	0.17 U	N/A	0.17 U	0.17 U	0.17 U	0.17 U
	2-Butanone (MEK)	2200	ug/L	10	10.7	20.7	N/A	1.1 U	1.1 U	1.1 U	1.1 U
	2-Hexanone	Null	ug/L	0.34 U	0.34 U	0.34 U	N/A	0.34 U	0.34 U	0.34 U	0.34 U
	Acetone	1700	ug/L	882	5770	26200	14.1	913	2040	462	26 U
EPA 8015C	Benzene	114	ug/L	10.9	0.065 U	1.3	N/A	0.065 U	0.065 U	0.065 U	0.065 U
	Bromochloromethane	Null	ug/L	0.22 U	0.22 U	0.22 U	N/A	0.22 U	0.22 U	0.22 U	0.22 U
	Bromodichloromethane	Null	ug/L	0.15 U	0.15 U	0.15 U	N/A	0.15 U	0.15 U	0.15 U	0.15 U
	Bromofluoromethane	Null	ug/L	0.25 U	0.25 U	0.25 U	N/A	0.25 U	0.25 U	0.25 U	0.25 U
EPA 8260	Carbon disulfide	15	ug/L	0.37 U	0.37 U	0.37 U	N/A	0.37 U	0.37 U	0.37 U	0.37 U
	Carbon tetrachloride	Null	ug/L	0.16 U	0.16 U	0.16 U	N/A	0.16 U	0.16 U	0.16 U	0.16 U
	Chlorobenzene	Null	ug/L	0.24 U	0.24 U	0.24 U	N/A	0.24 U	0.24 U	0.24 U	0.24 U
	Chloroethane	Null	ug/L	0.48 U	0.48 U	0.48 U	N/A	0.48 U	0.48 U	0.48 U	0.48 U
EPA 8015C	Chloroform	Null	ug/L	0.16 U	0.16 U	0.16 U	N/A	0.16 U	0.16 U	0.16 U	0.16 U
	Chloromethane	Null	ug/L	0.21 U	0.21 U	0.21 U	N/A	0.21 U	0.21 U	0.21 U	0.21 U
	cis-1,2-Dichloroethene	590	ug/L	0.2 U	0.2 U	0.2 U	N/A	0.2 U	0.2 U	0.2 U	0.2 U
	cis-1,3-Dichloropropene	Null	ug/L	0.19 U	0.19 U	0.19 U	N/A	0.19 U	0.19 U	0.19 U	0.19 U
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	0.22 U	0.22 U	0.22 U	N/A	0.22 U	0.22 U	0.22 U	0.22 U
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	65.5	0.12 U	0.12 U	N/A	0.12 U	0.12 U	0.12 U	0.12 U
EPA 8015C	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	256	2.7	3.2	N/A	0.21 U	0.21 U	0.21 U	0.21 U
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	METHYL ISOBUTYL KETONE	Null	ug/L	0.29 U	0.29 U	0.29 U	N/A	0.29 U	0.29 U	0.29 U	0.29 U
EPA 8260	Methyl tert-butyl ether	Null	ug/L	0.19 U	0.19 U	0.19 U	N/A	0.19 U	0.19 U	0.19 U	0.19 U
	Methylcyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	0.23 U	0.23 U	0.23 U	N/A	0.23 U	0.23 U	0.23 U	0.23 U
	o-Xylene	27	ug/L	139	1.8	1.4	N/A	0.1 U	0.1 U	0.1 U	0.1 U
EPA 8015C	Styrene	32	ug/L	0.18 U	0.18 U	0.18 U	N/A	0.18 U	0.18 U	0.18 U	0.18 U
	Tetrachloroethene	Null	ug/L	0.12 U	0.12 U	0.12 U	N/A	0.12 U	0.12 U	0.12 U	0.12 U
	Toluene	253	ug/L	93.3	1.1	2.2	N/A	0.11 U	0.11 U	0.11 U	0.11 U

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

														SW04	
Method	Analyte	Screening Value	Units	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...				25400	26700	25400	23800	24500	27500	29300 J	*	19500	25900 J	22300	23400
EPA 300.0	Bromide	Null	ug/L	310 U	310 UJ	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U
	Fluoride	Null	ug/L	100	100	100	110	100	100	100	100	100	110	110	110
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	50 U	50 U	50 U	50 U	600	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	50 U	50 U	50 U	50 U	50 UJ	N/A	N/A	N/A
EPA 353.2	Aluminum	87	ug/L	112	63.9	67	131	230	360 J	635	*	323	110	84.1	152
	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U				
	Arsenic	148	ug/L	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U				
	Barium	220	ug/L	61.8	59.3	62.8	57	56.8	58.8	65.7	*	55.5	53.8	54.8	54.3
EPA 6010B	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U				
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U				
	Calcium	Null	ug/L	39700	38000	38600	35800	36900	38700	*	36800	35700	36300	34900	
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U				
EPA 6010B	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U				
	Copper	1.58	ug/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
	Iron	1000	ug/L	94.6	78.9	10.8 U	93.1	195	423	603	*	208	109	84.5	171
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U				
EPA 7470A	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U				
	Magnesium	Null	ug/L	7560	7170	7500	6670	7030	7120	7450	*	6850	6660	6750	6790
	Manganese	50	ug/L	10.9	9.5	7.6	8	15.1	27.3	43.2	*	11.4	10.2	11.2	11.6
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U				
EPA 8015	Potassium	373000	ug/L	2010	1920	2150	1960	2080	2110	2420	*	2160	2020	1940	1900
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U				
	Sodium	Null	ug/L	10300	9540	10400	8580	9540	10500	*	9450	8940	9180	8910	
	Strontium	1500	ug/L	213	202	205	188	195	192	204	206	188	186	196	188
EPA 7470A	Tin	160	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U				
	Zinc	65.7	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U				
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U				
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U				
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C22)	Null	ug/L	13 U	13 U	14 U	13 U	38 U	38 U	38 U	38 U	14 U	40 U	13 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	2.5 U	2.5 U	2.5 U	2.5 U	0.16 U	2.5 U	0.16 U	0.16 U
	1,1,1-Trichloroethane	Null	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U	0.14 U	2.5 U	0.14 U	0.14 U
	1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	2.5 U	2.5 U	2.5 U	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U
	1,1,2,2-Tetrachloroethane	Null	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A	0.22 U	N/A	0.22 U	0.22 U
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U
	1,2-Dichloroethane	Null	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U	0.14 U	2.5 U	0.14 U	0.14 U
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	0.38 U	0.38 U	2.5 U	2.5 U	2.5 U	2.5 U	0.38 U	2.5 U	0.38 U	0.38 U
EPA 8260	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U
	1,2,2-Trichloroethane	Null	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	2.5 U	2.5 U	2.5 U	2.5 U	0.33 U	2.5 U	0.33 U	0.33 U
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	2.5 U	2.5 U	2.5 U	2.5 U	0.26 U	2.5 U	0.26 U	0.26 U
	1,4-Dichlorobenzene	Null	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	2.5 U	2.5 U	2.5 U	2.5 U	0.17 U	2.5 U	0.17 U	0.17 U
EPA 8260	2-Butanone (MEK)	2200	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	12 U	12 U	12 U	12 U	1.1 U	12 U	1.1 U	1.1 U
	2-Hexanone	Null	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	12 U	12 U	12 U	12 U	0.34 U	12 U	0.34 U	0.34 U
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	50 U	50 U	50 U	50 U	17.6 J	50 U	2.6 U	2.6 U
	Benzene	114	ug/L	0.065 U	0.065 U	0.065 U	0.065 U	1 U	1 U	1 U	1 U	0.065 U	2.5 U	0.065 U	0.065 U
EPA 8260	Bromochloromethane	Null	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	2.5 U	2.5 U	2.5 U	2.5 U	0.22 U	2.5 U	0.22 U	0.22 U
	Bromodichloromethane	Null	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	2.5 U	2.5 U	2.5 U	2.5 U	0.15 U	2.5 U	0.15 U	0.15 U
	Bromofrom	Null	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U	0.25 U	2.5 U	0.25 U	0.25 U
	Bromoform	Null	ug/L	0.37 U	0.37 U	0.37 U	0.37 U	2.5 U	2.5 U	2.5 U	2.5 U	0.37 U	2.5 U	0.37 U	0.37 U
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Carbon tetrachloride	Null	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	2.5 U	2.5 U	2.5 U	2.5 U	0.24 U	2.5 U	0.24 U	0.24 U
	Chlorobenzene	Null	ug/L	0.12 U	0.12 U	0.12 U	0.12 U	2.5 U	2.5 U	2.5 U	2.5 U	0.12 U	2.5 U	0.12 U	0.12 U
	Chloroethane	Null	ug/L	0.48 U	0.48 U	0.48 U	0.48 U	2.5 U	2.5 U	2.5 U	2.5 U	0.48 U	2.5 U	0.48 U	0.48 U
EPA 8260	Chloroform	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	2.5 U	2.5 U	2.5 U	2.5 U	0.16 U	2.5 U	0.16 U	0.16 U
	Chloromethane	Null	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	2.5 U	2.5 U	2.5 U	2.5 U	0.21 U	2.5 U	0.21 U	0.21 U
	cis-1,2-Dichloroethene	590	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	2.							

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW04

Method	Analyte	Screening Value	Units	July 18, 2014 Field Sample	July 21, 2014 Field Sample	July 24, 2014 Field Sample	July 27, 2014 Field Sample	July 30, 2014 Field Sample	August 2, 2014 Field Sample	August 5, 2014 Field Sample	August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	24000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	310 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	3.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	3.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Barium	220	ug/L	61.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	0.32 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	0.44 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	37100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Chromium	42	ug/L	0.93 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	0.72 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	698	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lead	1.17	ug/L	3.7 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	0.82 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	6820	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	46.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Nickel	28.9	ug/L	0.88 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	2220	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	0.53 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	9500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Strontium	1500	ug/L	197	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	3.0 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	0.025 U	N/A	N/A	N/A	N/A	N/A	N/A	270 U	270 U	270 U	270 U	270 U
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	152 U	152 U	152 U	152 U	152 U	152 U
	Ethylene glycol	192000	ug/L	5000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	13 U	13 U	13 U	13 U	13 U	13 U	13 U					
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	0.14 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloropropane	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	0.14 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorotetrafluoroethane	Null	ug/L	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	0.17 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	0.34 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U					
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene	114	ug/L	0.065 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	0.37 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	0.02 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chlorobenzene	Null	ug/L	0.12 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	0.48 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	0.16 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,2-Dichloroethene	590	ug/L	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	0.12 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	o-Xylene	27	ug/L	0.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	0.12 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	0.11 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04											
				August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	September 7, 2014 Field Sample	September 7, 2014 Field Duplicate	September 10, 2014 Field Sample	September 13, 2014 Field Sample	September 16, 2014 Field Sample	September 19, 2014 Field Sample	September 22, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Acetone	1700	ug/L	270 U	270 U	270 UJ	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 UJ	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	13 U	38 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04											
				September 25, 2014 Field Sample	September 26, 2014 Field Sample	October 1, 2014 Field Sample	October 1, 2014 Field Duplicate	October 4, 2014 Field Sample	October 7, 2014 Field Sample	October 10, 2014 Field Sample	October 13, 2014 Field Sample	October 17, 2014 Field Sample	October 20, 2014 Field Sample	October 23, 2014 Field Sample	October 26, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	13 U	14 U	13 U	14 U	15 U	13 U	13 U	13 U	13 U	14 U	14 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
EPA 8260	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW04				SW06			
				October 29, 2014		November 1, 2014		November 4, 2014		November 7, 2014	
				Field Sample	Field Duplicate						
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	3.9 U	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	3.6 U	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	196	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.32 U	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.44 U	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	103000	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.93 U	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	7.7 U	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.9 U	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	646	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	3.7 U	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	181	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	21900	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	46.2	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.88 U	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	5880	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.53 U	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	133000	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2620	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	13.7	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.025 U	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	9140	9540 J
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	88.2	180 J
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2920	2900
	TPH (C10-C28)	Null	ug/L	13 U	13 U	14 U	13 U	13 U	14 U	2500	690
	Acetone	1700	ug/L	270 U	270 U	N/A	N/A	N/A	N/A	N/A	490
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	0.16 U
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.14 U	0.14 U
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	0.19 U
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.19 U	0.19 U
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.22 U	0.22 U
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.26 U	0.26 U
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.17 U
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	1.1 U
	1,2-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.34 U	0.34 U
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1550	2220
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.38 U	0.38 U
	1,2-Dichlorotoluene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.33 U	0.33 U
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.26 U	0.26 U
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.7 U	1.7 U
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.34 U	0.34 U
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	1910	2030
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.065 U	0.065 U
EPA 8260	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.22 U	0.22 U
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.15 U	0.15 U
	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.25 U	0.25 U
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.37 U	0.37 U
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	0.16 U
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.24 U	0.24 U
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.48 U	0.48 U
EPA 8260	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	0.16 U
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.21 U	0.21 U
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.2 U	0.2 U
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.19 U	0.19 U
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.22 U	0.22 U
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.21 U	0.21 U
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.21 U	0.21 U
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.19 U	0.19 U
EPA 8260	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.1 U	0.1 U
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.18 U	0.18 U
EPA 8260	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.11 U

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

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N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

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N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

Exceedance

No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

SW06																										
Method	Analyte	Screening Value	Units	July 15, 2014	Field Sample	July 16, 2014	Field Sample	July 17, 2014	Field Sample	July 18, 2014	Field Sample	July 20, 2014	Field Sample	Field Duplicate	July 23, 2014	Field Sample	July 26, 2014	Field Sample	July 29, 2014	Field Sample	August 1, 2014	Field Sample	August 4, 2014	Field Sample	August 7, 2014	Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
ASTM D516-90...		Sulfate	21600 J	19000	18300	17700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Bromide	Null	ug	310 UJ	310 UJ	310 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	130	120	130	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Nitrite as N	Null	ug/L	50 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
EPA 353.2	Aluminum	87	ug/L	2340	2720	2440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	3.6 U	3.6 U	3.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	77.8	85.4	80.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	52700	54000	56000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	11.58	ug/L	1.9 U	1.9 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	2050	2020	1640	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	9130	9570	10200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	439	625	664	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	2580	2530	2550	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	8320	8720	9280	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	260	280	292	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Tin	180	ug/L	1.5 U	1.5 U	1.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	9.57	ug/L	1.2 U	1.2 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	270 U								
EPA 8260	Ethyleneglycol	192000	ug/L	5000 U	5000 U	5000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	152 U								
	TPH (C10-C28)	Null	ug/L	39 U	14 U	14 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
EPA 8260	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,2-Dichlorobenzene	Null	ug/L	2.5 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethane	Null	ug/L	1.0 U	0.45 U	0.45 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	2.5 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	2.5 U	0.33 U	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	2.5 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	2.5 U	0.17 U	0.17 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2000	ug/L	12 U	1.1 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	50 U	2.6 U	2.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	114	ug/L	0.065 U	0.065 U	0.065 U	N/A	N/A	N/A	N																

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
■ Detection
■ Exceedan
■ No Detect

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW06															
Method	Analyte	Screening Value	Units	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A								
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A								
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A								
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A								
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A								
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A								
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A								
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A								
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A								
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A								
ASTM D516-90...	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A								
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A								
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A								
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 300.0	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A								
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A								
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A								
	Antimony	80	ug/L	N/A	N/A	N/A	N/A								
EPA 353.2	Arsenic	148	ug/L	N/A	N/A	N/A	N/A								
	Barium	220	ug/L	N/A	N/A	N/A	N/A								
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A								
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 6010B	Calcium	Null	ug/L	N/A	N/A	N/A	N/A								
	Chromium	42	ug/L	N/A	N/A	N/A	N/A								
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A								
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A								
EPA 7470A	Iron	1000	ug/L	N/A	N/A	N/A	N/A								
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A								
	Lithium	14	ug/L	N/A	N/A	N/A	N/A								
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 8015	Manganese	50	ug/L	N/A	N/A	N/A	N/A								
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A								
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A								
	Silver	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 8015C	Sodium	Null	ug/L	N/A	N/A	N/A	N/A								
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A								
	T	100	ug/L	N/A	N/A	N/A	N/A								
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A								
EPA 8015	Mercury	Null	ug/L	N/A	N/A	N/A	N/A								
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U								
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A								
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U								
EPA 8015C	TPH (C10-C28)	Null	ug/L	13 U	39 U	13 U	14 U	13 U	14 U						
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A								
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A								
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A								
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A								
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A								
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A								
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A								
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A								
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A								
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A								
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A								
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U								
	Benzene	114	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A								
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A								
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A								
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A								
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A								
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A								
	Chromethane	Null	ug/L	N/A	N/A	N/A	N/A								
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A								
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A								
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A								
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A								
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A								
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A								
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A								
METHYL ISOBUTYL KETONE	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A								
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A								
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A								
	Styrene	32	ug/L	N/A	N/A	N/A	N/A								
EPA 8260	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A								
	Toluene	253	ug/L	N/A	N/A	N/A	N/A								

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW06											
				September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	October 1, 2014 Field Sample	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
EPA 8015C	TPH (C10-C28)	Null	ug/L	14 U	14 U	14 U	13 U	14 U	14 U	15 U	14 U	14 U	13 U	13 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8260	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW06							SW07						
				October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	June 29, 2014 Field Sample	July 1, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample			
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	36400	41900	42500	45700	41800		
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	310 U	310 U	310 U	310 U	310 U			
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	130	110	110	110	110			
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
EPA 353.2	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	992	2300	886	743	580 J	407		
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U			
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U			
EPA 6010B	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	54.8	80.8	46.3	45.6	41.6	41		
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U			
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U			
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	36200	34900	22800	22800	23400	24400		
EPA 7470A	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U			
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U			
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U			
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1130	2030	1330	1090	772	554		
EPA 8015	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.7 U	3.7 U	3.7 U	3.7 U	3.7 U			
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U			
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	8480	8040	5830	5850	6380	6490		
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	168	266	109	93.6	65	55.3		
EPA 8015C	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U			
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2450	2880	2120	2100	2010	2080		
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U			
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	32600	16100	14200	14400	15000	15000		
EPA 8260	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	263	200	122	123	126	126		
	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U			
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	12 U	11.4	1.2 U	1.2 U	22.7	1.2 U		
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U		
EPA 7470A	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	TPH (C10-C28)	Null	ug/L	13 U	13 U	14 U	13 U	14 U	14 U	16 U	13 U	13 U	13 U	14 U	13 U		
EPA 8015C	Acetone	1700	ug/L	270 U	270 U	N/A	N/A	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U		
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U		
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U		
EPA 8015	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U		
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U		
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U		
EPA 8260	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U		
	1,2-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U		
EPA 7470A	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U		
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U		
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U		
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U		
EPA 8015C	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U		
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U		
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U		
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U							
EPA 8015	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U		
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U		
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U		
	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U		
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U		
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U		
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U		
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U		
EPA 7470A	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U		
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U		
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U		
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		
EPA 8015C	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U		
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U		
	Dichlorodifluoromethane																

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW07												SW08	
				July 6, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample		
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	41000	42600	65900	65900 J	65500	45700	53400 J	52200	59600	59800	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	310 U	310 UJ	310 U	310 U	N/A									
EPA 300.0	Fluoride	Null	ug/L	120	110	110	110	120	120	120	120	120	120	120	120	120	N/A
	Nitrate as N	10000	ug/L	N/A	390	560	640	660	N/A	N/A	N/A						
	Nitrite as N	Null	ug/L	N/A	50 U	50 U	50 U	50 U	N/A	N/A	N/A						
	Antimony	80	ug/L	656	906	176 J	844	2400	550	337	484	584	256 J	669	N/A	N/A	N/A
EPA 353.2	Arsenic	148	ug/L	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	N/A
	Barium	220	ug/L	42.6	56.3	38.7	48.6	59.6	42.1	40.6	44	47.8	47	71.5	N/A	N/A	N/A
	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	N/A
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	N/A
EPA 6010B	Calcium	Null	ug/L	24400	29600	24600	27600	25200	24900	26400	30000	29600	33300	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	N/A
	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	N/A
	Copper	1.58	ug/L	1.9 U	6.5	1.9 U	6.5	1.9 U	6.5	1.9 U	6.5	1.9 U	6.5	1.9 U	6.5	1.9 U	N/A
EPA 7470A	Iron	1000	ug/L	743	774	238	972	2420	528	386	646	500	388	1170	N/A	N/A	N/A
	Lithium	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	N/A
	Magnesium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
	Manganese	50	ug/L	6520	7080	6920	7410	7520	6920	6830	7240	7980	7690	7220	N/A	N/A	N/A
EPA 8015	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	N/A
	Potassium	373000	ug/L	2160	2270	2040	2400	2570	2040	1940	2020	2340	2270	2080	N/A	N/A	N/A
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	N/A
	Sodium	Null	ug/L	15100	16600	17000	18800	17400	15600	15700	17900	22300	21400	17200	N/A	N/A	N/A
EPA 8015C	Strontium	1500	ug/L	125	156	131	141	145	130	132	145	169	171	172	N/A	N/A	N/A
	T	100	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	N/A
	Zinc	65.7	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	N/A
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	N/A
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C26)	Null	ug/L	13 U	38 U	39 U	40 U	39 U	38 U	N/A							
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,1,1-Trichloroethane	Null	ug/L	0.19 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
EPA 8260	1,1,2-Tetrachloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,1,2,2-Tetrachloroethene	Null	ug/L	0.22 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,2-Dichloroethane	Null	ug/L	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
EPA 8260	1,2-Dichloropropane	Null	ug/L	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,2-Trichloroethane	Null	ug/L	0.33 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
	1,4-Dichlorobenzene	Null	ug/L	0.17 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	1.1 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
	2-Hexanone	Null	ug/L	0.34 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
	Acetone	1700	ug/L	2.6 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
	Benzene	114	ug/L	0.065 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
EPA 8260	Bromochloromethane	Null	ug/L	0.22 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
	Bromodichloromethane	Null	ug/L	0.15 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
	Bromofrom	Null	ug/L	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
	Bromoform	Null	ug/L	0.37 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	Carbon disulfide	15	ug/L	0.16 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Carbon tetrachloride	Null	ug/L	0.24 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
	Chlorobenzene	Null	ug/L	0.1													

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

60

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detectio
Exceeda

No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW08

Method	Analyte	Screening Value	Units	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 21, 2014 Field Sample	July 24, 2014 Field Sample	July 27, 2014 Field Sample	July 30, 2014 Field Sample	August 2, 2014 Field Sample	August 5, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A										
	Magnesium	Null	ug/L	N/A	N/A										
	Potassium	373000	ug/L	N/A	N/A										
	Sodium	Null	ug/L	N/A	N/A										
9014	Cyanide	5.2	ug/L	N/A	N/A										
	Bromide	Null	ug/L	N/A	N/A										
	Chloride	230000	ug/L	N/A	N/A										
	Fluoride	Null	ug/L	N/A	N/A										
9056A	Nitrate as N	10000	ug/L	N/A	N/A										
	Nitrite as N	Null	ug/L	N/A	N/A										
	Orthophosphate as P	Null	ug/L	N/A	N/A										
	Sulfate	Null	ug/L	N/A	N/A										
ASTM D516-90...	Sulfate	Null	ug/L	52800	47800	53700 J	50300	57100	59700	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	310 U	310 U	310 UJ	310 U	310 UJ	310 U	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	120	120	110	110	130	120	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	430	N/A	620	N/A	N/A							
EPA 353.2	Nitrite as N	Null	ug/L	50 U	N/A	50 U	N/A	N/A							
	Aluminum	87	ug/L	6490	1400	248	306	1470	190 J	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	3.9 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Arsenic	148	ug/L	3.6 U	N/A	N/A	N/A	N/A	N/A	N/A					
EPA 6010B	Barium	220	ug/L	108	54.1	39	41.7	52.4	45.3	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	0.32 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Cadmium	Null	ug/L	0.44 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Calcium	Null	ug/L	26600	26500	24400	25800	27900	29400	N/A	N/A	N/A	N/A	N/A	N/A
EPA 4740A	Chromium	42	ug/L	6.7	0.93 U	N/A	N/A	N/A	N/A	N/A	N/A				
	Cobalt	24	ug/L	0.72 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Copper	1.58	ug/L	8.6	9.1 U	1.8 U	1.9 U	1.9 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	6370	1350	332	403	1360	298	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lead	1.17	ug/L	3.7 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Lithium	14	ug/L	0.82 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Magnesium	Null	ug/L	7360	7100	6660	7030	7780	7510	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	828	158	56.6	68.3	120	68.1	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Nickel	28.9	ug/L	0.88 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Potassium	373000	ug/L	3340	2250	1830	1910	2340	2180	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	0.53 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Sodium	Null	ug/L	17600	16000	15000	17000	20000	21600	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Strontium	1500	ug/L	145	138	127	140	154	167	N/A	N/A	N/A	N/A	N/A	N/A
	T	100	ug/L	1.5 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Zinc	65.7	ug/L	21.5	12.2 U	12.2 U	12.2 U	11.2	12.2 U	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	0.025 U	N/A	N/A	N/A	N/A	N/A	N/A					
EPA 8260	Acetone	1700	ug/L	N/A	N/A										
	Ethylene glycol	192000	ug/L	5000 U	N/A	N/A	N/A	N/A	N/A	N/A					
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A										
	TPH (C10-C28)	Null	ug/L	39 U	13 U	39 U	13 U	13 U							
EPA 8260	Acetone	1700	ug/L	N/A	N/A										
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A										
	1,1-Dichloroethane	Null	ug/L	2.5 U	0.14 U	2.5 U	0.14 U	0.14 U	0.14 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2-Tetrachloroethane	Null	ug/L	2.5 U	N/A	2.5 U	N/A	N/A							
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A										
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	0.22 U	N/A	0.22 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A										
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A										
	1,2-Dichlorobenzene	Null	ug/L	2.5 U	0.23 U	2.5 U	0.16 U	0.23 U	0.16 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	1 U	0.14 U	1 U	0.14 U	0.14 U	0.14 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	2.5 U	0.38 U	2.5 U	0.38 U	0.38 U	0.38 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dimethylpropane	Null	ug/L	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	2.5 U	0.33 U	2.5 U	0.33 U	0.33 U	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	2.5 U	0.26 U	2.5 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	2.5 U	0.17 U	2.5 U	0.17 U	0.17 U	0.17 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	12 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	12 U	0.34 U	12 U	0.34 U	0.34 U	0.34 U	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	50 U	2.6 UJ	50 U	2.6 U	2.6 U	2.6 U	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene	114	ug/L	1 U	0.065 U	2.5 U	0.065 U	0.065 U	0.065 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromochloromethane	Null	ug/L	2.5 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	2.5 U	0.15 U	2.5 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	2.5 U	0.25 U	2.5 U	0.25 U	0.25 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	2.5 U	0.37 U	2.5 U	0.37 U	0.37 U	0.37 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon disulfide	15	ug/L	5 U	0.19 U	5 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	2.5 U	0.24 U	2.5 U	0.24 U	0.24 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	2.5 U	0.12 U	2.5 U	0.12 U	0.12 U	0.12 U	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	2.5 U	0.48 U	2.5 U	0.48 U	0.48 U	0.48 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroform	Null	ug/L	2.5 U	0.16 U	2.5 U	0.16 U	0.16 U	0.16 U	N/A	N/A	N/A	N/A	N/A	N/A
	Chromatemethane	Null	ug/L	2.5 U	0.21 U	2.5 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	2.5 U	0.2 U	2.5 U	0.2 U	0.2 U	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A										
	Dibromochloromethane	Null	ug/L	2.5 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichromethane	Null	ug/L	N/A	N/A										
	Ethylbenzene	14	ug/L	2.5 U	0.12 U	2.5 U	0.12 U	0.12 U	0.12 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A										
	m,p-Xylene	27	ug/L	2.5 U	0.21 U	2.5 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A										
	METHYL ISOBUTYL KETONE	Null	ug/L	12 U	0.29 U	12 U	0.29 U	0.29 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methyl tert-butyl ether														

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW08											
				August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample	August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	September 4, 2014 Field Duplicate	
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW08				SW09				SW10			
				September 7, 2014 Field Sample	September 10, 2014 Field Sample	September 13, 2014 Field Sample	September 16, 2014 Field Sample	September 19, 2014 Field Sample	September 22, 2014 Field Sample	September 25, 2014 Field Sample	September 28, 2014 Field Sample	October 1, 2014 Field Sample	October 4, 2014 Field Sample	October 7, 2014 Field Sample	
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8260	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	13 U	13 U	13 U	14 U	13 U	14 U	13 U	14 U	13 U	14 U	13 U	14 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylcyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW08														
Method	Analyte	Screening Value	Units	October 10, 2014	October 13, 2014	October 17, 2014	October 20, 2014	October 23, 2014	October 26, 2014	October 29, 2014	November 1, 2014	November 4, 2014	November 7, 2014	November 10, 2014
				Field Sample	Field Sample	Field Sample	Field Duplicate	Field Sample						
6020	Calcium	Null	ug/L	N/A										
	Magnesium	Null	ug/L	N/A										
	Potassium	373000	ug/L	N/A										
	Sodium	Null	ug/L	N/A										
9014	Cyanide	5.2	ug/L	N/A										
	Bromide	Null	ug/L	N/A										
	Chloride	230000	ug/L	N/A										
	Fluoride	Null	ug/L	N/A										
9056A	Nitrate as N	10000	ug/L	N/A										
	Nitrite as N	Null	ug/L	N/A										
	Orthophosphate as P	Null	ug/L	N/A										
	Sulfate	Null	ug/L	N/A										
ASTM D516-90...	Bromide	Null	ug/L	N/A										
	Fluoride	Null	ug/L	N/A										
	Nitrate as N	10000	ug/L	N/A										
	Nitrite as N	Null	ug/L	N/A										
EPA 300.0	Aluminum	87	ug/L	N/A										
	Antimony	80	ug/L	N/A										
	Arsenic	148	ug/L	N/A										
	Barium	220	ug/L	N/A										
EPA 353.2	Beryllium	Null	ug/L	N/A										
	Cadmium	Null	ug/L	N/A										
	Calcium	Null	ug/L	N/A										
	Chromium	42	ug/L	N/A										
EPA 6010B	Cobalt	24	ug/L	N/A										
	Copper	1.58	ug/L	N/A										
	Iron	1000	ug/L	N/A										
	Lead	1.17	ug/L	N/A										
EPA 7470A	Lithium	14	ug/L	N/A										
	Magnesium	Null	ug/L	N/A										
	Manganese	50	ug/L	N/A										
	Nickel	28.9	ug/L	N/A										
EPA 8015	Potassium	373000	ug/L	N/A										
	Silver	Null	ug/L	N/A										
	Sodium	Null	ug/L	N/A										
	Strontium	1500	ug/L	N/A										
EPA 8015C	T	100	ug/L	N/A										
	Zinc	65.7	ug/L	N/A										
	Mercury	Null	ug/L	N/A										
	Acetone	1700	ug/L	N/A										
EPA 8015	Ethylene glycol	192000	ug/L	N/A										
	ISOPROPYL ALCOHOL	Null	ug/L	N/A										
	TPH (C10-C28)	Null	ug/L	13 U	13 U	13 U	14 U	13 U	14 U	13 U	13 U	13 U	14 U	
	Acetone	1700	ug/L	270 U										
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	152 U										
	1,1-Dichloroethane	Null	ug/L	N/A										
	1,1,1-Trichloroethane	Null	ug/L	N/A										
	1,1,2-Tetrachloroethane	Null	ug/L	N/A										
EPA 8260	1,1,2-Trichloroethene	Null	ug/L	N/A										
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A										
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A										
	1,2-DIBROMOETHANE	Null	ug/L	N/A										
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	N/A										
	1,2-Dichloroethene (Total)	970	ug/L	N/A										
	1,2-Dichloropropane	Null	ug/L	N/A										
	1,2-Trichloroethene	Null	ug/L	N/A										
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	N/A										
	1,4-Dichlorobenzene	Null	ug/L	N/A										
	2-Butanone (MEK)	2200	ug/L	N/A										
	2-Hexanone	Null	ug/L	N/A										
EPA 8260	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 UJ	2.6 UJ	2.6 U						
	Benzene	114	ug/L	N/A										
	Bromochloromethane	Null	ug/L	N/A										
	Bromodichloromethane	Null	ug/L	N/A										
EPA 8260	Bromoform	Null	ug/L	N/A										
	Bromoform	Null	ug/L	N/A										
	Carbon disulfide	15	ug/L	N/A										
	Carbon tetrachloride	Null	ug/L	N/A										
EPA 8260	Chlorobenzene	Null	ug/L	N/A										
	Chloroethane	Null	ug/L	N/A										
	Chloroform	Null	ug/L	N/A										
	Chloromethane	Null	ug/L	N/A										
EPA 8260	cis-1,2-Dichloroethene	590	ug/L	N/A										
	cis-1,3-Dichloropropene	Null	ug/L	N/A										
	CYCLOHEXANE	Null	ug/L	N/A										
	Dibromochloromethane	Null	ug/L	N/A										
EPA 8260	Dichlorodifluoromethane	Null	ug/L	N/A										
	Ethylbenzene	14	ug/L	N/A										
	Isopropylbenzene	Null	ug/L	N/A										
	m,p-Xylene	27	ug/L	N/A										
METHYL ISOBUTYL KETONE	Methyl acetate	Null	ug/L	N/A										
	Methyl tert-butyl ether	Null	ug/L	N/A										
	Methylene cyclohexane	Null	ug/L	N/A										
	Methylene Chloride	Null	ug/L	N/A										
EPA 8260	o-Xylene	27	ug/L	N/A										
	Styrene	32	ug/L	N/A										
	Tetrachloroethene	Null	ug/L	N/A										
	Toluene	253	ug/L	N/A										

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

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F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW09													SW10				
Method	Analyte	Screening Value	Units	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	Field Duplicate	July 18, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	July 2, 2014 Field Sample		
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	68200 J	58900	46300	57100 J	49200	56400	55000	58500	N/A	N/A	N/A	N/A	39700	
	Bromide	Null	ug/L	310 U	310 UJ	310 UJ	310 UJ	310 U	N/A	N/A	310 U						
	Fluoride	Null	ug/L	110	120	120	110	110	120	120	130	N/A	N/A	120	N/A	110	
	Nitrate as N	10000	ug/L	610	500	N/A	620	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 300.0	Nitrite as N	Null	ug/L	50 U	50 U	N/A	50 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 UU						
	Arsenic	148	ug/L	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U						
	Barium	220	ug/L	43.9	41	39.8	39.3	41.8	44.5	44.3	46.5	56	52.9	N/A	N/A	65.6 J	
EPA 353.2	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U						
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U						
	Calcium	Null	ug/L	25800	26600	25500	24600	25900	28400	28300	31100	26900	27200	N/A	N/A	22300 J	
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U						
EPA 6010B	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U						
	Copper	1.58	ug/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U						
	Iron	1000	ug/L	449	352	303	402	428	354	317	242	2250	1700	N/A	N/A	4200 J	
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U						
EPA 7470A	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U						
	Magnesium	Null	ug/L	7230	7130	6950	6780	7060	7670	7790	7960	7180	7050	N/A	N/A	5080 J	
	Manganese	50	ug/L	112	57.2	72.8	75.8	85.5	91.8	116	89	214	166	N/A	N/A	243 J	
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U						
EPA 8015	Potassium	373000	ug/L	2270	2080	1980	1880	1940	2140	2140	2380	2700	2360	N/A	N/A	2750	
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U						
	Sodium	Null	ug/L	18500	17300	16000	15200	17000	20200	20000	22700	19000	18500	N/A	N/A	15800 J	
	Strontium	1500	ug/L	138	137	130	127	142	157	156	176	139	134	N/A	N/A	116 J	
EPA 8015C	T	100	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U							
	Zinc	65.7	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U						
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U						
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8015	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	N/A						
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	TPH (C10-C28)	Null	ug/L	38 U	38 U	13 U	38 U	13 U	13 U	13 U	13 U	14 U	13 U	14 U	13 U	14 U	
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1-Dichloroethane	Null	ug/L	2.5 U	2.5 U	0.14 U	2.5 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	
	1,1,1-Trichloroethane	Null	ug/L	2.5 U	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	
	1,1,2-Tetrachloroethane	Null	ug/L	2.5 U	2.5 U	N/A	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	0.22 U	N/A	0.22 U	N/A	0.22 U	N/A	0.22 U	N/A	0.22 U	N/A	0.22 U	
	1,1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
	1,2-Dichloroethene (Total)	970	ug/L	2.5 U	2.5 U	0.38 U	2.5 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	
	1,2-Dichloropropane	Null	ug/L	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
	1,2-Trichloroethane	Null	ug/L	2.5 U	2.5 U	0.30 U	2.5 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	0.26 U	2.5 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	
	1,4-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	0.17 U	2.5 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	
	2-Butanone (MEK)	2200	ug/L	12 U	12 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	
	2-Hexanone	Null	ug/L	12 U	12 U	0.34 U	12 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	
EPA 8260	Acetone	1700	ug/L	50 U	50 U	2.6 UJ	50 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	
	Benzene	114	ug/L	1 U	1 U	0.065 U	2.5 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	
	Bromochloromethane	Null	ug/L	2.5 U	2.5 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
	Bromodichloromethane	Null	ug/L	2.5 U	2.5 U	0.15 U	2.5 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U		
EPA 8260	Bromofrom	Null	ug/L	2.5 U	2.5 U	0.25 U	2.5 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
	Bromoform	Null	ug/L	2.5 U	2.5 U	0.37 U	2.5 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	
	Carbon disulfide	15	ug/L	5 U	5 U	0.16 U	5 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	
	Carbon tetrachloride	Null	ug/L	2.5 U	2.5 U	0.24 U	2.5 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	
EPA 8260	Chlorobenzene	Null	ug/L	2.													

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW10											
				July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	Field Duplicate	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	40900	45800	45200	41000	41700	44000	57100	60300 J	59300	49200	55700 J	48400
	Bromide	Null	ug/L	310 U	310 UJ	310 U	310 U	310 U	310 U	2500	110	230	110	310 U	310 U
EPA 300.0	Fluoride	Null	ug/L	110	120	120	110	120	110	550 J	590	540	560	600	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	50 U	50 U	50 U	50 U	50 UJ	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	1660	2510 J	726	2430	934	760	420 J	1000	2820	903	794	1100
EPA 353.2	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
	Arsenic	148	ug/L	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
	Barium	220	ug/L	51.4	58.3	43.2	58.9	46	42.6	40.1	51.6	63.5	46.5	45.2	49.1
	Beryllium	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
EPA 6010B	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
	Calcium	Null	ug/L	21800	23700	23500	24400	24500	25000	23900	27400	27600	26200	24900	25500
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
EPA 7470A	Copper	1.58	ug/L	6.6	6.1	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Iron	1000	ug/L	2860	3780	971	2780	1020	684	654	1130	2680	849	1120	1460
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
EPA 8015	Magnesium	Null	ug/L	5650	6470	6330	6600	6530	6430	6450	7640	7470	7150	6910	7050
	Manganese	50	ug/L	212	275	119	212	134	112	89.4	154	228	147	152	148
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U
	Potassium	373000	ug/L	2200	2360	2050	2500	2190	2120	2060	2530	2650	2140	2040	2080
EPA 8015C	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
	Sodium	Null	ug/L	16900	18200	18000	18900	19300	20000	18600	26400	22400	21800	17400	18700
	Strontium	1500	ug/L	112	121	118	126	125	124	120	151	147	133	128	141
	Tin	160	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
EPA 8260	Zinc	65.7	ug/L	15.2	18.8	12.2 U	15.5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	10.5
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylene glycol	192000	ug/L	N/A	2800 UJ	2800 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
TPH (C10-C28)	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	13 U	14 U	13 U	13 U	13 U	38 U	38 U	39 U	38 U	17 U	38 U	13 U
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U	0.14 U	2.5 U	0.14 U
EPA 7470A	1,1,1-Trichloroethane	Null	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	2.5 U	2.5 U	2.5 U	2.5 U	0.19 U	2.5 U	0.19 U
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	2.5 U	2.5 U	2.5 U	2.5 U	N/A	2.5 U	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U
EPA 8015C	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	2.5 U	2.5 U	2.5 U	2.5 U	0.38 U	2.5 U	0.38 U
EPA 8260	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U
	1,2-Trichloroethene	Null	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2.5 U	2.5 U	2.5 U	2.5 U	0.33 U	2.5 U	0.33 U
	1,4-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.5 U	2.5 U	2.5 U	2.5 U	0.26 U	2.5 U	0.26 U
	1,4-Dichlorobenzene	Null	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	2.5 U	2.5 U	2.5 U	2.5 U	0.17 U	2.5 U	0.17 U
EPA 8260	2-Butanone (MEK)	2200	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	12 U	12 U	12 U	12 U	1.1 U	12 U	1.1 U
	2-Hexanone	Null	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	12 U	12 U	12 U	12 U	0.34 U	12 U	0.34 U
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	50 U	50 U	50 U	50 U	2.6 UJ	50 U	2.6 U
	Benzene	114	ug/L	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	1 U	1 U	1 U	1 U	0.065 U	2.5 U	0.065 U
EPA 8015	Bromochloromethane	Null	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	2.5 U	2.5 U	2.5 U	2.5 U	0.22 U	2.5 U	0.22 U
	Bromodichloromethane	Null	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.5 U	2.5 U	2.5 U	2.5 U	0.15 U	2.5 U	0.15 U
	Bromofrom	Null	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U	0.25 U	2.5 U	0.25 U
	Bromoform	Null	ug/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.5 U	2.5 U	2.5 U	2.5 U	0.37 U	2.5 U	0.37 U
EPA 8260	Carbon disulfide	15	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Carbon tetrachloride	Null	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	2.5 U	2.5 U	2.5 U	2.5 U	0.24 U	2.5 U	0.24 U
	Chlorobenzene	Null	ug/L	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	2.5 U	2.5 U	2.5 U	2.5 U	0.12 U	2.5 U	0.12 U
	Chloroethane	Null	ug/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	2.5 U	2.5 U	2.5 U	2.5 U	0.48 U	2.5 U	0.48 U
EPA 8260	Chloroform	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	2.5 U	2.5 U	2.5 U	2.5 U	0.16 U	2.5 U	0.16 U
	Chloromethane	Null	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.5 U	2.5 U	2.5 U	2.5 U	0.21 U	2.5 U	0.21 U
	cis-1,2-Dichloroethene	590	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	0.2 U
	cis-1,3-Dichloropropene	Null	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	2.5 U	2.5 U	2.5 U	2.5 U	0.19 U	2.5 U	0.19 U
EPA 8260	CYCLOHE														

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW10		SW11		SW12		SW14	
				July 17, 2014 Field Sample	July 18, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	53400	62500	N/A	N/A	23600	23800	24400	24200
	Bromide	Null	ug/L	310 UJ	310 UJ	N/A	N/A	310 UJ	310 UJ	310 U	310 U
	Fluoride	Null	ug/L	120	130	N/A	130	110	100	110	110
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	494	411 J	N/A	2570	N/A	798 J	278	1060
	Antimony	80	ug/L	3.9 U	3.9 U	N/A	3.9 U	N/A	3.9 U	3.9 U	3.9 U
	Arsenic	148	ug/L	3.6 U	3.6 U	N/A	3.6 U	N/A	3.6 U	3.6 U	3.6 U
EPA 6010B	Barium	220	ug/L	42	47.7	N/A	68.6	N/A	71.5	58.8	66.4
	Beryllium	Null	ug/L	0.32 U	0.32 U	N/A	0.32 U	N/A	0.32 U	0.32 U	0.32 U
	Cadmium	Null	ug/L	0.44 U	0.44 U	N/A	0.44 U	N/A	0.44 U	0.44 U	0.44 U
	Calcium	Null	ug/L	25400	30900	N/A	46200	N/A	42000	35900	35800
EPA 6010B	Chromium	42	ug/L	0.93 U	0.93 U	N/A	0.93 U	N/A	0.93 U	0.93 U	0.93 U
	Cobalt	24	ug/L	0.72 U	0.72 U	N/A	0.72 U	N/A	0.72 U	0.72 U	0.72 U
	Copper	1.58	ug/L	1.9 U	1.9 U	N/A	1.9 U	N/A	1.9 U	1.9 U	1.9 U
	Iron	1000	ug/L	483	632	N/A	1310	N/A	344	266	1150
EPA 7470A	Lead	1.17	ug/L	3.7 U	3.7 U	N/A	3.7 U	N/A	3.7 U	3.7 U	3.7 U
	Lithium	14	ug/L	0.82 U	0.82 U	N/A	0.82 U	N/A	0.82 U	0.82 U	0.82 U
	Magnesium	Null	ug/L	7140	7970	N/A	8040	N/A	8100	7020	7060
	Manganese	50	ug/L	84.8	104	N/A	16.9	N/A	37.3	14.4	49.8
EPA 8015	Nickel	28.9	ug/L	0.88 U	0.88 U	N/A	0.88 U	N/A	0.88 U	0.88 U	0.88 U
	Potassium	373000	ug/L	1980	2370	N/A	2360	N/A	2380	1940	2050
	Silver	Null	ug/L	0.53 U	0.53 U	N/A	0.53 U	N/A	0.53 U	0.53 U	0.53 U
	Sodium	Null	ug/L	20300	26600	N/A	6550	N/A	9370	8200	8280
EPA 8015C	Strontium	1500	ug/L	139	172	N/A	239	N/A	215	192	192
	T	100	ug/L	1.5 U	1.5 U	N/A	1.5 U	N/A	1.5 U	1.5 U	1.5 U
	Zinc	65.7	ug/L	1.2 U	1.2 U	N/A	1.2 U	N/A	1.2 U	1.2 U	1.2 U
	Mercury	0.025	ug/L	0.025 U	0.025 U	N/A	0.025 U	N/A	0.025 U	0.025 U	0.025 U
EPA 8015	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	270 U
	Ethylene glycol	192000	ug/L	5000 U	5000 U	N/A	N/A	N/A	2800 UJ	2800 U	2800 U
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	152 U
	TPH (C10-C28)	Null	ug/L	13 U	14 U	13 U	14 U	14 U	14 U	13 U	14 U
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	N/A	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
	1,1,1-Trichloroethane	Null	ug/L	0.14 U	0.14 U	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
EPA 8260	1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	0.23 UU	0.23 UU	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	1,1,2,2-Tetrachloroethane	Null	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
EPA 8260	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	1,2-Dichloroethane	Null	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
	1,2-Dichloropropane	Null	ug/L	0.23 UU	0.23 UU	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	1,2-Trichloroethane	Null	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	2-Butanone (MEK)	2200	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
	2-Hexanone	Null	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
EPA 8260	Benzene	114	ug/L	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
	Bromochloromethane	Null	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	Bromodichloromethane	Null	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
	Bromofluoromethane	Null	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
EPA 8260	Carbon disulfide	15	ug/L	0.37 UJ	0.37 UJ	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
	Carbon tetrachloride	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
	Chlorobenzene	Null	ug/L	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
	Chloroethane	Null	ug/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
EPA 8260	Chloroform	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
	Chloromethane	Null	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	cis-1,2-Dichloroethene	590	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	cis-1,3-Dichloropropene	Null	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	METHYL ISOBUTYL KETONE	Null	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
EPA 8260	Methyl tert-butyl ether	Null	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	Methylcyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	o-Xylene	27	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
EPA 8260	Styrene	32	ug/L	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	Tetrachloroethene	Null	ug/L	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
	Toluene	253	ug/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

U - Compound was not detected in the sample at or above the Method Detection Limit.
J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

Exceedance
No. 1

No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	June 30, 2014		July 1, 2014		July 2, 2014		July 3, 2014		July 4, 2014		July 5, 2014		July 6, 2014		July 10, 2014		July 11, 2014		July 12, 2014	
				Field Sample	Field Duplicate	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample													
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Sulfate	Null	ug/L	N/A	N/A	38700	42400	44700	44100	42700	38900	63100	67100 J	56500 J									
EPA 300.0	Bromide	Null	ug/L	310 U	310 U	N/A	310 U	310 U	310 U	310 U	310 U												
	Fluoride	Null	ug/L	120	120	N/A	110	110	120	120	120	110	530	530	530	530	530	530	530	530	530	530	530
EPA 353.2	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50 U	50 U	50 U	50 U	50 U							
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Aluminum	87	ug/L	1670	1460	N/A	1780 J	1070	1490 J	687	656	633 J	1270	758									
	Antimony	80	ug/L	3.9 U	3.9 U	N/A	7.8 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U											
	Arsenic	148	ug/L	3.6 U	3.6 U	N/A	7.2 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U											
	Barium	220	ug/L	71.7	66.8	N/A	51.8 J	46.2	53.7	45.4	42.9	50.9	45.6	51.9	47.9								
	Beryllium	Null	ug/L	0.32 U	0.32 U	N/A	0.64 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U											
	Cadmium	Null	ug/L	0.44 U	0.44 U	N/A	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U											
	Calcium	Null	ug/L	33000	32000	N/A	22100 J	22300	25000	24600	24200	28100	24400	26200	27600								
	Chromium	42	ug/L	0.93 U	0.93 U	N/A	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U												
	Cobalt	24	ug/L	0.72 U	0.72 U	N/A	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	
	Copper	1.58	ug/L	5.5	5.4	N/A	3.0 U	5.6	5.5	5.5	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U								
	Iron	1000	ug/L	2400	2040	N/A	2020 J	1720	2000	376	641	745	1000	1430	1080								
	Lead	1.17	ug/L	3.7 U	3.7 U	N/A	7.4 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U											
	Lithium	14	ug/L	0.82 U	0.82 U	N/A	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	
	Magnesium	Null	ug/L	7260	7090	N/A	5790 J	5570	6190	6390	6260	6180	6660	7100	7110								
	Manganese	50	ug/L	307	281	N/A	149 J	137	176	124	89.4	158	142	144	119								
	Nickel	28.9	ug/L	0.88 U	0.88 U	N/A	1.8 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	
	Potassium	373000	ug/L	2620	2460	N/A	2340	2110	2180	2100	2060	2020	2110	2100	2090	2000	2000	2000	2000	2000	2000	2000	
	Silver	Null	ug/L	0.53 U	0.53 U	N/A	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	
	Sodium	Null	ug/L	19100	19000	N/A	21000 J	22000	21400	20000	19600	17600	20900	25000									
	Strontium	1500	ug/L	160	149	N/A	115 J	114	123	122	122	132	126	140	139								
	T	100	ug/L	1.5 U	1.5 U	N/A	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U											
	Zinc	65.7	ug/L	11.4	11.9	N/A	2.4 J	82.4	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U										
EPA 7470A	Mercury	Null	ug/L	0.025 U	0.025 U	N/A	0.062 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U											
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	TPH (C10-C28)	Null	ug/L	13 U	13 U	N/A	14 U	13 U	13 U	13 U	13 U	13 U	13 U										
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.14 U	0.14 U	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U											
	1,1,1-Trichloroethane	Null	ug/L	0.19 U	0.19 U	N/A	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U											
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	0.23 U	0.23 U	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U											
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U											
	1,2-Dichloroethane	Null	ug/L	0.14 U	0.14 U	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U											
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	N/A	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U											
	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U											
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	N/A	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U											
	1,4-Dichlorobenzene	Null	ug/L	0.17 U																			

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

SW16														SW
Method	Analyte	Screening Value	Units	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	56900	42300	54700 J	50200	55200	58000	57300	36300	32500	27100	21900
EPA 300.0	Bromide	Null	ug/L	310 U	310 U	310 U	310 U	310 UJ	310 UJ	1500	1300	1200	1000 J	940
EPA 352.2	Fluoride	Null	ug/L	120	120	110	110	120	130	120	180	140	140	130
EPA 352.2	Nitrate as N	10000	ug/L	590	50 U	50 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrite as N	Null	ug/L	50 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	824	3170	1250	529	627	253 J	182 J	267	145 J	164	323 J
	Antimony	80	ug/L	33 U	33 U	33 U	33 U	33 U	33 U					
	Arsenic	148	ug/L	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U					
EPA 6010B	Barium	220	ug/L	47.5	59.2	48.7	43.9	46.7	47.7	46.3	141	136 J	125	130
	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U					
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U					
	Calcium	Null	ug/L	26900	26300	25500	25800	28100	30700	30400	87700	89100 J	83700	84900
EPA 7470A	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U					
	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U					
	Copper	1.58	ug/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U					
	Iron	1000	ug/L	780	2180	1440	706	557	372	263	192	118 J	207	425
EPA 8015	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U					
	Lithium	14	ug/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U					
	Magnesium	Null	ug/L	7120	6870	6790	7000	7600	7680	7560	16800	1600 J	15100	15500
	Manganese	50	ug/L	111	111	123	86.9	61.2	81.1	62.6	215	300 J	607	521
EPA 8015C	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U					
	Potassium	373000	ug/L	2170	2660	2090	1970	2130	2270	2160	5320	4960	4620	4110
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U					
	Sodium	Null	ug/L	26300	19100	18800	21700	23800	24800	24500	61000	53800 J	46000	38600
EPA 7470A	Strontium	1500	ug/L	139	131	131	142	152	171	168	924	876 J	758	672
	Tin	180	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U					
	Zinc	65.7	ug/L	1.2 U	12.1	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.16
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U					
EPA 8015	Acetone	17000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylene Acid	192000	ug/L	5000 U	5000 U	5000 U	5000 U	2800 UJ	2800 U					
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	39 U	13 U	38 U	13 U	13 U	13 U	13 U	13 U	1400	1500	1400
EPA 8015C	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	2.5 U	0.16 U	2.5 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
	1,1-Dichloroethene	Null	ug/L	2.5 U	0.14 U	2.5 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1,1,2-Tetrachloroethane	Null	ug/L	2.5 U	N/A	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromoethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromoethane	Null	ug/L	1.0	0.14 U	1 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	2.5 U	0.38 U	2.5 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
	1,2-Dichloropropane	Null	ug/L	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	2,4,4-Trichlorobenzene	Null	ug/L	2.5 U	0.33 U	2.5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
	1,3-Dichlorobenzene	Null	ug/L	2.5 U	0.26 U	2.5 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	2.5 U	0.17 U	2.5 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	2-Butanone (MEK)	2200	ug/L	12 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
	2-Hexanone	Null	ug/L	12 U	0.34 U	12 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
	Acetone	1700	ug/L	50 U	2.6 U	50 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
EPA 8260	Benzene	114	ug/L	1 U	0.065 U	2.5 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
	Bromodichloromethane	Null	ug/L	2.5 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	Bromofom	Null	ug/L	2.5 U	0.15 U	2.5 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
	Bromomethane	Null	ug/L	2.5 U	0.37 U	2.5 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
EPA 8260	Carbon disulfide	15	ug/L	5 U	0.18 U	5 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	Carbon tetrachloride	Null	ug/L	2.5 U	0.24 U	2.5 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	Chlorobenzene	Null	ug/L	2.5 U	0.12 U	2.5 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
	Chloroethane	Null	ug/L	2.5 U	0.48 U	2.5 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
EPA 8260	Chloroform	Null	ug/L	2.5 U	0.16 U	2.5 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
	Chromate	Null	ug/L	2.5 U	0.21 U	2.5 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	cis-1,2-Dichloroethene	590	ug/L	2.5 U	0.2 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	cis-1,3-Dichloropropene	Null	ug/L	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
EPA 8260	Cyanoacrylate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	2.5 U	0.13 U	2.5 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	2.5 U	0.21 U	2.5 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	METHYL ISOBUTYL KETONE	Null	ug/L	12 U	0.29 U	12 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
EPA 8260	Methyl tert-butyl ether	Null	ug/L	1 U	0.19 U	2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	Methylcyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	o-Xylene	27	ug/L	2.5 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
EPA 8260	Styrene													

II - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

color
█ Detection

Detection Exceedance

Exceedance
No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW17															
Method	Analyte	Screening Value	Units	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...				14800	12900	10400	13200	8700	7400	5800 J	5000 U	14300 J	1000 U	1000 U	1000 U
EPA 300.0	Bromide	Null	ug/L	890	790 J	730	550	650	620	640	600	150	140	140	140
	Fluoride	Null	ug/L	140	140	140	150	150	150	160	150	140	140	140	140
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	50 U	50 U	50 U	50 U	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	50 U	50 U	50 U	50 U	N/A	N/A	N/A	N/A
EPA 353.2	Aluminum	87	ug/L	942	739	311	93.4	245	67.2 J	215	213	1150	1120	16 U	368 J
	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U				
	Arsenic	148	ug/L	3.6 U	3.6 U	7.7	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	5.4	3.6 U	3.6 U	3.6 U
	Barium	220	ug/L	124	117	106	96.3	116	103	106	105	96.2	92.6	77.5	93
EPA 6010B	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U				
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U				
	Calcium	Null	ug/L	85600	83000	79300	72400	88200	79800	80300	85200	68600	68800	67300	75700
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U				
EPA 7470A	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U				
	Copper	1.58	ug/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
	Iron	1000	ug/L	990	995	305	138	269	219	306	280	1510	1450	105	592
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U				
EPA 8015	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U				
	Magnesium	Null	ug/L	16000	15500	15200	13000	15600	14800	15000	15100	12600	12600	12500	13600
	Manganese	50	ug/L	1220	1100	881	1300	1250	1310	1280	832	926	786	1050	1050
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U				
EPA 8015C	Potassium	373000	ug/L	4170	4070	4130	3670	4350	3940	4230	4210	4000	3790	3410	3980
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U				
	Sodium	Null	ug/L	34800	32600	30600	25100	31900	28900	30300	30000	20600	22300	22200	25400
	Strontium	1500	ug/L	636	604	559	502	584	522	552	442	448	436	480	480
EPA 7470A	Tin	160	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U				
	Zinc	65.7	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U				
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U				
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U				
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	1300	880	590	430	250	200	140	130	39 U	110	13 U	140
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.16 U	0.16 U	0.16 U
	1,1,1-Trichloroethane	Null	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.14 U	0.14 U	0.14 U
	1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.19 U	0.19 U	0.19 U
EPA 8260	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.3 U	2.3 U	2.3 U
	1,2-Dichloroethane	Null	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.14 U	0.14 U	0.14 U
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	0.38 U	0.38 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.38 U	0.38 U	0.38 U
	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U	0.23 U	0.23 U
EPA 8260	1,2-Trichloroethane	Null	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.33 U	0.33 U	0.33 U
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.26 U	0.26 U	0.26 U
	1,4-Dichlorobenzene	Null	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.17 U	0.17 U	0.17 U
	2-Butanone (MEK)	2200	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	12 U	12 U	12 U	12 U	12 U	1.1 U	1.1 U	1.1 U
EPA 8260	2-Hexanone	Null	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	12 U	12 U	12 U	12 U	12 U	0.34 U	0.34 U	0.34 U
	Acetone	1700	ug/L	1570	580	156	44.4	50 U	2.6 U	2.6 U	2.6 U				
	Benzene	114	ug/L	0.065 U	0.065 U	0.065 U	0.065 U	1 U	1 U	1 U	1 U	1 U	0.065 U	0.065 U	0.065 U
	Bromochloromethane	Null	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.22 U	0.22 U	0.22 U
EPA 8260	Bromodichloromethane	Null	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.15 U	0.15 U	0.15 U
	Bromofrom	Null	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.25 U	0.25 U	0.25 U
	Bromoform	Null	ug/L	0.37 U	0.37 U	0.37 U	0.37 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.37 U	0.37 U	0.37 U
	Carbon disulfide	15	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	5 U	5 U	5 U	5 U	5 U	0.16 U	0.16 U	0.16 U
EPA 8260	Carbon tetrachloride	Null	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.24 U	0.24 U	0.24 U
	Chlorobenzene	Null	ug/L	0.12 U	0.12 U	0.12 U	0.12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.12 U	0.12 U	0.12 U
	Chloroethane	Null	ug/L	0.48 U	0.48 U	0.48 U	0.48 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.48 U	0.48 U	0.48 U
	Chloroform	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.16 U	0.16 U	0.16 U
EPA 8260	Chloromethane	Null	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.21 U	0.21 U	0.21 U
	cis-1,2-Dichloroethene	590	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.2 U	0.2 U</	

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW17															
Method	Analyte	Screening Value	Units	July 20, 2014 Field Sample	July 23, 2014 Field Sample	July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	13 U	13 U	14 U	13 U	14 U	14 U	110	110	13 U	14 U	13 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	0.14 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	0.11 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	0.14 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Trichloroethene	Null	ug/L	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	0.17 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Hexanone	Null	ug/L	0.34 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U				
	Benzene	114	ug/L	0.065 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromodichloromethane	Null	ug/L	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	0.37 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	0.16 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon tetrachloride	Null	ug/L	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	0.12 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	0.48 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	0.16 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloromethane	Null	ug/L	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dibromochloromethane	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	0.12 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	m,p-Xylene	27	ug/L	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	0.19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene Chloride	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	0.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	0.12 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Toluene	253	ug/L	0.11 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW17															
Method	Analyte	Screening Value	Units	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	September 30, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 300.0	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 353.2	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 7470A	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acetone	1700	ug/L	270 U	270 UJ	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	ISOPROPYL ALCOHOL	Null	ug/L	152	152 UJ	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	
EPA 8015C	TPH (C10-C28)	Null	ug/L	14	U	39	U	13	U	13	U	14	U	13	J
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	130 J
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	
EPA 8260	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW17															
Method	Analyte	Screening Value	Units	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	13 U	14 U	14 U	13 U	14 U	14 U	13 U	13 U	13 U	14 U	13 U	13 U
	Acetone	1700	ug/L	N/A	N/A	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylcyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW17		SW17D		SW17U		July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014		July 8, 2014 Field Sample	
				November 9, 2014 Field Sample	July 10, 2014 Field Sample						Field Sample	Field Duplicate							
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Sulfate	Null	ug/L	9400	9100	36400	34700	30200	26900	23200	20400	17400	18700	14400					
	Bromide	Null	ug/L	160	640	1800 J	1500	1300	1200 J	1100	1000	960 J	940 J	880					
	Fluoride	Null	ug/L	160	160	180	130	130	120	130	120	120	130	150					
	Nitrate as N	10000	ug/L	50 U	50 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 353.2	Nitrite as N	Null	ug/L	50 U	50 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Aluminum	87	ug/L	N/A	450	290	323	68.4 J	16 U	517 J	149	772	426	387	362				
	Antimony	80	ug/L	N/A	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U					
	Arsenic	148	ug/L	N/A	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U					
EPA 6010B	Barium	220	ug/L	N/A	118	114	153	140 J	131	128	123	129	115	119	111				
	Beryllium	Null	ug/L	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	
	Calcium	Null	ug/L	88500	84800	91200 J	87000	87900	88200	89000	83100	85000	83400						
EPA 7470A	Chromium	42	ug/L	N/A	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U					
	Cobalt	24	ug/L	N/A	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U					
	Copper	1.58	ug/L	N/A	5.5	5.1	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	
	Iron	1000	ug/L	N/A	441	308	269	10.6 U	10.6 U	559	209	746	489	470	384				
EPA 8015	Lead	1.17	ug/L	N/A	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U					
	Lithium	14	ug/L	N/A	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U					
	Magnesium	Null	ug/L	15600	15000	17400	16500 J	15100	15900	15800	16200	15100	15300	15400					
	Manganese	50	ug/L	N/A	1250	1200	153	162 J	166	392	460	392	166	386	82.3				
EPA 8015C	Nickel	28.9	ug/L	N/A	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U					
	Potassium	373000	ug/L	N/A	4510	4190	5520	4910	4820	4220	4050	4310	4160	4160	4310				
	Silver	Null	ug/L	N/A	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U					
	Sodium	Null	ug/L	N/A	31600	29900	64700	55600 J	49600	41900	39100	38200	35400	35300	34900				
EPA 8260	Strontium	1500	ug/L	N/A	580	563	808	734 J	665	622	591	581	547	538					
	T	100	ug/L	N/A	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U					
	Zinc	65.7	ug/L	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U					
	Mercury	Null	ug/L	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U					
EPA 7470A	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Ethylene glycol	192000	ug/L	N/A	5000 U	5000 U	N/A	N/A	N/A	N/A	N/A	2800 UJ	2800 U	5000 U	5000 U	5000 U	5000 U	5000 U	
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	TPH (C10-C28)	Null	ug/L	13 U	290	290	880	570	410	180 J	160	130	130	120	14 U				
EPA 8015C	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1-Dichloroethane	Null	ug/L	N/A	2.5 U	2.5 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	
	1,1,1-Trichloroethane	Null	ug/L	N/A	2.5 U	2.5 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	
EPA 8260	1,1,2-Tetrachloroethane	Null	ug/L	N/A	2.5 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
	1,1,2-Trichloroethane	Null	ug/L	N/A	2.5 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	2.5 U	2.5 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	2.5 U	2.5 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	N/A	2.5 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
	1,2-Dichloroethane	Null	ug/L	N/A	2.5 U	2.5 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	
	1,2-Dichloroethene (Total)	970	ug/L	N/A	2.5 U	2.5 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	
EPA 8015	1,2-Dichloropropane	Null	ug/L	N/A	2.5 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
	1,2-Trichloroethene	Null	ug/L	N/A	2.5 U	2.5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	
	1,3-Dichlorobenzene	Null	ug/L	N/A	2.5 U	2.5 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	
	1,4-Dichlorobenzene	Null	ug/L	N/A	2.5 U	2.5 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	12 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
	2-Hexanone	Null	ug/L	N/A	12 U	12 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	
	Acetone	1700	ug/L	N/A	2.6 U	50 U	1900	4800	191	33.8	17.1	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U
	Benzene	114	ug/L	N/A	1 U	1 U	0.065 U												

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

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U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
T1 - Multi-Stage (MS) - Multi-Stage Pre-Filter (MSP)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

Exceedance
No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW18											
				July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	14 U	13 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	40 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW18															
Method	Analyte	Screening Value	Units	August 28, 2014	September 3, 2014	September 6, 2014	September 9, 2014	September 12, 2014	September 15, 2014	September 18, 2014	September 21, 2014	September 24, 2014	September 27, 2014	September 30, 2014	October 3, 2014
				Field Duplicate	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	
EPA 8260	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	
	TPH (C10-C28)	Null	ug/L	39 U	14 U	14 U	14 U	14 U	13 U	13 U	15 U	14 U	13 U	13 U	
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW18															
Method	Analyte	Screening Value	Units	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	13 U	14 U	14 U	14 U	14 U	13 U	13 U	13 U	14 U	13 U	13 U	13 U
	Acetone	1700	ug/L	N/A	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

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color

Detection

Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW20															
Method	Analyte	Screening Value	Units	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 21, 2014 Field Sample	July 24, 2014 Field Sample	July 27, 2014 Field Sample	July 30, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A											
	Magnesium	Null	ug/L	N/A											
	Potassium	373000	ug/L	N/A											
	Sodium	Null	ug/L	N/A											
9014	Cyanide	5.2	ug/L	N/A											
	Bromide	Null	ug/L	N/A											
	Chloride	230000	ug/L	N/A											
	Fluoride	Null	ug/L	N/A											
9056A	Nitrate as N	10000	ug/L	N/A											
	Nitrite as N	Null	ug/L	N/A											
	Orthophosphate as P	Null	ug/L	N/A											
	Sulfate	Null	ug/L	N/A											
ASTM D516-90...	Sulfate	Null	ug/L	27400	27800 J	26900	18200	25100 J	22200	22800	22700				
EPA 300.0	Bromide	Null	ug/L	310 U	N/A	N/A	N/A	N/A							
EPA 353.2	Fluoride	Null	ug/L	110	110	110	100	100	100	100	100	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	50 U	N/A	N/A	N/A	N/A							
	Nitrite as N	Null	ug/L	50 U	50 U	50 U	50 U	N/A							
	Aluminum	87	ug/L	650 J	255	182	740	194	1250	1180	294 J	N/A	N/A	N/A	N/A
EPA 6010B	Antimony	80	ug/L	3.9 U	N/A	N/A	N/A	N/A							
	Arsenic	148	ug/L	3.6 U	N/A	N/A	N/A	N/A							
	Barium	220	ug/L	68.4	70.1	68.5	56	56.3	72.3	67	63.2	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	0.32 U	N/A	N/A	N/A	N/A							
EPA 7470A	Cadmium	Null	ug/L	0.44 U	N/A	N/A	N/A	N/A							
	Calcium	Null	ug/L	39900	41700	42700	34400	35900	38000	36400	38200	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	0.93 U	N/A	N/A	N/A	N/A							
	Cobalt	24	ug/L	0.72 U	N/A	N/A	N/A	N/A							
EPA 8015	Copper	1.58	ug/L	1.9 U	N/A	N/A	N/A	N/A							
	Iron	1000	ug/L	762	211	145	488	163	1200	1040	345	N/A	N/A	N/A	N/A
	Lithium	1.17	ug/L	3.7 U	N/A	N/A	N/A	N/A							
	Magnesium	14	ug/L	0.82 U	N/A	N/A	N/A	N/A							
EPA 8015C	Manganese	50	ug/L	7580	7980	7730	6550	6690	7220	7230	7090	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	0.88 U	N/A	N/A	N/A	N/A							
	Potassium	373000	ug/L	2400	2540	2250	2130	2070	2340	2250	2180	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	0.53 U	N/A	N/A	N/A	N/A							
EPA 8260	Sodium	Null	ug/L	11600	12700	12200	8510	9240	10400	10100	10800	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	206	220	222	175	189	208	194	204	N/A	N/A	N/A	N/A
	T	160	ug/L	1.5 U	N/A	N/A	N/A	N/A							
	Zinc	65.7	ug/L	1.2 U	N/A	N/A	N/A	N/A							
EPA 7470A	Mercury	Null	ug/L	0.025 U	N/A	N/A	N/A	N/A							
	Acetone	1700	ug/L	N/A											
	Ethylene glycol	192000	ug/L	5000 U	N/A	N/A	N/A	N/A							
	ISOPROPYL ALCOHOL	Null	ug/L	N/A											
EPA 8015C	TPH (C10-C28)	Null	ug/L	40 U	40 U	38 U	14 U	40 U	13 U	13 U	13 U	13 U	14 U	13 U	13 U
	Acetone	1700	ug/L	N/A											
	ISOPROPYL ALCOHOL	Null	ug/L	N/A											
	1,1-Dichloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.14 U	2.5 U	0.14 U	0.14 U	0.14 U	N/A	N/A	N/A	N/A
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	2.5 U	0.19 U	0.19 U	N/A	N/A	N/A	N/A					
	1,1,2-Tetrachloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	N/A	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A											
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A											
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A											
	1,2-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	1 U	1 U	1 U	0.14 U	1 U	0.14 U	0.14 U	0.14 U	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	2.5 U	2.5 U	2.5 U	0.38 U	2.5 U	0.38 U	0.38 U	0.38 U	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloropropane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.22 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.33 U	2.5 U	0.33 U	0.33 U	0.33 U	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.26 U	2.5 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.17 U	2.5 U	0.17 U	0.17 U	0.17 U	N/A	N/A	N/A	N/A
EPA 8260	2-Butanone (MEK)	2200	ug/L	12 U	12 U	12 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	12 U	12 U	12 U	0.34 U	12 U	0.34 U	0.34 U	0.34 U	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	50 U	50 U	50 U	2.6 U	50 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	1 U	2.5 U	1 U	0.065 U	2.5 U	0.065 U	0.065 U	0.065 U	N/A	N/A	N/A	N/A
EPA 8260	Bromochloromethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.15 U	2.5 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	2.5 U	2.5 U	2.5 U	0.25 U	2.5 U	0.25 U	0.25 U	0.25 U	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	2.5 U	2.5 U	2.5 U	0.37 U	2.5 U	0.37 U	0.37 U	0.37 U	N/A	N/A	N/A	N/A
EPA 8260	Carbon disulfide	15	ug/L	5 U	5 U	5 U	0 U	5 U	0 U	0.16 U	0.16 U	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	2.5 U	2.5 U	2.5 U	0.24 U	2.5 U	0.24 U	0.24 U	0.24 U	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.12 U	2.5 U	0.12 U	0.12 U	0.12 U	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.48 U	2.5 U	0.48 U	0.48 U	0.48 U	N/A	N/A	N/A	N/A
EPA 8260	Chloroform	Null	ug/L	2.5 U	2.5 U	2.5 U	0.16 U	2.5 U	0.16 U	0.16 U	0.16 U	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.21 U	2.5 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	2.5 U	2.5 U	2.5 U	0.2 U	2.5 U	0.2 U	0.2 U	0.2 U	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.19 U	2.5 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	N/A
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A											
	Dibromochloromethane	Null	ug/L	2.5 U	2.5 U	2.5 U	0.22 U	2.5 U	0.22 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A											
	Ethylbenzene	14	ug/L	2.5 U	2.5 U	2.5 U	0.12 U	2.5 U	0.12 U	0.12 U	0.12 U	N/A	N/A	N/A	N/A
EPA 8260	Isopropylbenzene	Null	ug/L	N/A											
	m,p-Xylene	27	ug/L	2.5 U	2.5 U	2.5 U	0.21 U	2.5 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N						

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20											
				August 2, 2014 Field Sample	August 5, 2014 Field Sample	August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample	August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
EPA 8015C	TPH (C10-C28)	Null	ug/L	14 U	14 U	13 U	15 U	13 U	13 U	180 J	39 U	13 U	13 U	14 U	14 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20												
				September 7, 2014 Field Sample	September 10, 2014 Field Sample	September 13, 2014 Field Sample	September 13, 2014 Field Duplicate	September 16, 2014 Field Sample	September 19, 2014 Field Sample	September 22, 2014 Field Sample	September 25, 2014 Field Sample	September 25, 2014 Field Duplicate	September 28, 2014 Field Sample	October 1, 2014 Field Sample	October 4, 2014 Field Sample	
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8260	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
EPA 8260	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	METHYL ISOBUTYL KETONE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253</														

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
■ Detection
■ Exceedance
■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20												SW21																							
				November 7, 2014			November 10, 2014			July 2, 2014			July 3, 2014			July 4, 2014			July 5, 2014			July 8, 2014			July 9, 2014			July 10, 2014			July 11, 2014			July 12, 2014			July 13, 2014		
				Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A	Field Sample	N/A	N/A			
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
ASTM D516-90...	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	40800	39900	36800	33800	23500	19600	16700	16000	16900 J	15900	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U		
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	640	550	510 J	310 U	310 U	160	170	200	190	190	190	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U		
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	240	180	160	160	160	160	160	160	160	160	160	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U		
	Nitrite as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000				
EPA 353.2	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000					
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	474 J	250	204 J	158	931	3830	247	3790 J	216	499	499	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U			
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	3.9 UJ	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U				
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U				
EPA 6010B	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	113 J	102	98.8	103	104	126	102	140	107	106	106	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U				
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U					
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	89400 J	87500	91100	96100	90400	95100	94800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800	97800				
EPA 7470A	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U				
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U					
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U				
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	487 J	367	151	199	370	2940	306	4740	295	551	551	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
EPA 8015	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U					
	Magnesium	14	ug/L	N/A	N/A	N/A	N/A	N/A	1.2 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U				
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U					
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700			
EPA 8015C	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU	2800 UU				
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	TPH (C10-C28)	TPH (C10-C28)</																													

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

SW21													SW21												
Method	Analyte	Screening Value	Units	July 14, 2014		July 15, 2014		July 16, 2014		July 17, 2014		July 18, 2014		July 20, 2014		July 23, 2014		July 26, 2014		July 29, 2014		August 1, 2014			
				Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample			
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	14000	14000 J	17400 J	12800	15400	12500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Bromide	Null	ug/L	310 U	310 UJ	310 U	310 U	310 U	310 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	200	200	190	180	190	190	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Nitrate as N	10000	ug/L	N/A	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	50 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Aluminum	87	ug/L	249	472	814	746	867 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Arsenic	148	ug/L	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	88	87.8	91.3	88	94.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Calcium	Null	ug/L	63200	85000	86100	83800	89200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Iron	1000	ug/L	259	582	608	729	1089	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	15100	15600	15900	15800	16300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Manganese	50	ug/L	1840	2050	2310	2260	2430	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Potassium	373000	ug/L	2610	2600	2560	2460	2620	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Sodium	Null	ug/L	18100	18600	19300	18600	19600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	526	533	547	522	549	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Tin	180	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Mercury	Null	ug/L	0.022 U	0.025 U	0.028 U	0.025 U	0.025 U	0.025 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	TPH (C10-C28)	Null	ug/L	180	160	290	310	260	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1-Dichloroethene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2,4-Trichlorobenzene	Null	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260																									

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
■ Detection
■ Exceedance
■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

														SW21T	
Method	Analyte	Screening Value	Units	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	1480
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	170	200	13 U	13 U	13 U	110	13 U	14 U	38 U	14 U	14 U	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21T											
				September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	October 1, 2014 Field Sample	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U					
EPA 8260	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U					
	TPH (C10-C28)	Null	ug/L	13 U	13 U	14 U	14 U	13 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	270 U	270 U
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U					
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21T								SW22		SW23	
				October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	June 30, 2014 Field Sample	July 2, 2014 Field Sample	July 6, 2014 Field Sample	August 13, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A							
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A							
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A							
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A							
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
ASTM D516-90...	Sulfate	Null	ug/L	N/A	N/A	44400	23000	N/A							
	Bromide	Null	ug/L	N/A	N/A	310 U	310 U	N/A							
	Fluoride	Null	ug/L	N/A	N/A	150	120	N/A							
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A							
EPA 300.0	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Antimony	80	ug/L	N/A	N/A	3.9 UJ	3.9 U	N/A							
	Arsenic	148	ug/L	N/A	N/A	3.6 U	3.6 U	N/A							
	Barium	220	ug/L	N/A	N/A	46.8 J	110	N/A							
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	0.32 U	0.32 U	N/A							
	Cadmium	Null	ug/L	N/A	N/A	0.44 U	0.44 U	N/A							
	Calcium	Null	ug/L	N/A	N/A	30000 J	46200	N/A							
	Chromium	42	ug/L	N/A	N/A	0.93 U	6.7	N/A							
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	0.72 U	0.72 U	N/A							
	Copper	1.58	ug/L	N/A	N/A	1.0 U	5.4	N/A							
	Iron	1000	ug/L	N/A	N/A	657 J	5230	N/A							
	Lead	1.17	ug/L	N/A	N/A	0.82 U	0.82 U	N/A							
EPA 7470A	Lithium	14	ug/L	N/A	N/A	7020 J	8270	N/A							
	Manganese	50	ug/L	N/A	N/A	130 J	142	N/A							
	Nickel	28.9	ug/L	N/A	N/A	0.88 U	0.88 U	N/A							
	Potassium	373000	ug/L	N/A	N/A	2120	3260	N/A							
EPA 8015	Silver	Null	ug/L	N/A	N/A	0.53 U	0.53 U	N/A							
	Sodium	Null	ug/L	N/A	N/A	25400 J	5840	N/A							
	Strontium	1500	ug/L	N/A	N/A	204 J	195	N/A							
	Tin	100	ug/L	N/A	N/A	1 U	1 U	N/A							
EPA 7470A	Zinc	65.7	ug/L	N/A	N/A	1.2 J	12.3	N/A							
	Mercury	Null	ug/L	N/A	N/A	0.025 U	0.025 U	N/A							
	Acetone	1700	ug/L	N/A	N/A	N/A	270 U	N/A							
	Ethylene glycol	192000	ug/L	N/A	N/A	5000 U	N/A	N/A							
EPA 8015C	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	152 U							
	TPH (C10-C28)	Null	ug/L	14 U	13 U	13 U	13 U	13 U							
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U							
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U							
EPA 8260	1,1-Dichloroethane	Null	ug/L	N/A	N/A	0.16 U	0.16 U	N/A							
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	0.14 U	0.14 U	N/A							
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	0.16 U	0.19 U	N/A							
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
EPA 8260	1,1,2-Trichloroethene	Null	ug/L	N/A	N/A	0.23 U	0.23 U	N/A							
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	0.22 U	0.22 U	N/A							
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	0.26 U	0.26 U	N/A							
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	0.17 U	0.17 U	N/A							
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	0.23 U	0.23 U	N/A							
	1,2-Dichloroethane	Null	ug/L	N/A	N/A	0.14 U	0.14 U	N/A							
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	0.38 U	0.38 U	N/A							
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	0.23 U	0.23 U	N/A							
EPA 8260	1,2-Trichloroethene	Null	ug/L	N/A	N/A	0.33 U	0.33 U	N/A							
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	0.26 U	0.26 U	N/A							
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	0.17 U	0.17 U	N/A							
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	1.1 U	1.1 U	N/A							
EPA 8260	2-Hexanone	Null	ug/L	N/A	N/A	0.34 U	0.34 U	N/A							
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U							
	Benzene	114	ug/L	N/A	N/A	0.065 U	0.065 U	N/A							
	Bromochloromethane	Null	ug/L	N/A	N/A	0.22 U	0.22 U	N/A							
EPA 8260	Bromodichloromethane	Null	ug/L	N/A	N/A	0.15 U	0.15 U	N/A							
	Bromoform	Null	ug/L	N/A	N/A	0.25 U	0.25 U	N/A							
	Bromoform	Null	ug/L	N/A	N/A	0.37 U	0.37 U	N/A							
	Carbon disulfide	15	ug/L	N/A	N/A	0.16 U	0.16 U	N/A							
EPA 8260	Carbon tetrachloride	Null	ug/L	N/A	N/A	0.24 U	0.24 U	N/A							
	Chlorobenzene	Null	ug/L	N/A	N/A	0.12 U	0.12 U	N/A							
	Chloroethane	Null	ug/L	N/A	N/A	0.48 U	0.48 U	N/A							
	Chloroform	Null	ug/L	N/A	N/A	0.16 U	0.16 U	N/A							
EPA 8260	Chloromethane	Null	ug/L	N/A	N/A	0.21 U	0.21 U	N/A							
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	0.2 U	0.2 U	N/A							
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	0.19 U	0.19 U	N/A							
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
EPA 8260	Dibromochloromethane	Null	ug/L	N/A	N/A	0.22 U	0.22 U	N/A							
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Ethylbenzene	14	ug/L	N/A	N/A	0.12 U	0.12 U	N/A							
	Isopropylbenzene	Null	ug/L	N/A	N/A	0.21 U	0.21 U	N/A							
EPA 8260	m,p-Xylene	27	ug/L	N/A	N/A	0.21 U	0.21 U	N/A							
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	0.19 U	0.19 U	N/A							
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
EPA 8260	Methylene Chloride	Null	ug/L	N/A	N/A	0.23 U	0.23 U	N/A							
	o-Xylene	27	ug/L	N/A	N/A	0.1 U	0.1 U	N/A							
	Styrene	32	ug/L	N/A	N/A	0.18 U	0.18 U	N/A							
	Tetrachloroethene	Null	ug/L	N/A	N/A										

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW24

Method	Analyte	Screening Value	Units	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 19, 2014 Field Sample	July 22, 2014 Field Sample	July 25, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	37800	38500	36500 J	*	21800	29200 J	19400	22900	24200	N/A	N/A	N/A
	Bromide	Null	ug/L	2300	2300	1300	1700	1800	1700 J	1600	930 J	1600 J	N/A	N/A	N/A
EPA 300.0	Fluoride	Null	ug/L	180	180	15 U	-	190	190	180	110	210	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	50 U	50 U	N/A							
	Nitrite as N	Null	ug/L	N/A	N/A	50 U	50 U	N/A							
	Aluminum	87	ug/L	112	191	16 U	-	16 U	16 U	16 U	16 U	103 J	N/A	N/A	N/A
EPA 353.2	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	N/A	N/A	N/A
	Arsenic	148	ug/L	6.6	8.4	7.3	*	9.3	9.8	6.4	8.2	7.7	N/A	N/A	N/A
	Barium	220	ug/L	204	202	172	*	153	144	142	132	148	N/A	N/A	N/A
	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	N/A	N/A	N/A
EPA 6010B	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	N/A	N/A	N/A
	Calcium	Null	ug/L	160000	160000	154000	*	144000	137000	138000	129000	137000	N/A	N/A	N/A
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	N/A	N/A	N/A
	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	N/A	N/A	N/A
EPA 4740A	Copper	1.58	ug/L	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	N/A	N/A	N/A
	Iron	1000	ug/L	1050	1110	1030	*	1180	1170	1150	1030	1350	N/A	N/A	N/A
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	N/A	N/A	N/A
	Lithium	14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	N/A	N/A
EPA 8015	Magnesium	Null	ug/L	40600	38600	38700	*	34600	33000	33300	32200	32400	N/A	N/A	N/A
	Manganese	50	ug/L	12900	13700	12400	*	12600	12600	12700	11700	12200	N/A	N/A	N/A
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	N/A	N/A	N/A
	Potassium	373000	ug/L	4600	4220	4160	*	3830	3470	3460	3180	3520	N/A	N/A	N/A
EPA 8015C	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	N/A	N/A	N/A
	Sodium	Null	ug/L	77500	71400	64000	*	58000	51800	52100	47600	48700	N/A	N/A	N/A
	Strontium	1500	ug/L	1880	1880	1650	*	1510	1450	1500	1380	1440	N/A	N/A	N/A
	Tin	160	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A	N/A	N/A
EPA 4740A	Zinc	65.7	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	N/A	N/A	N/A
	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	6300	5700	3700	*	4300	5400	4300	4800	6000	*	4300	4300
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	2.5 U	2.5 U	0.16 U	2.5 U	0.16 UJ	0.16 U	0.16 U	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	0.14 U	0.14 U	2.5 U	2.5 U	0.14 U	2.5 U	0.14 UJ	0.14 U	0.14 U	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	0.19 U	0.19 U	2.5 U	2.5 U	0.19 U	2.5 U	0.19 UJ	0.19 U	0.19 U	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	2.5 U	2.5 U	N/A	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2-Trichloroethane	Null	ug/L	0.23 U	0.23 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 UJ	0.23 U	0.23 U	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	0.22 U	0.22 U	N/A	N/A	0.22 U	N/A	0.22 UJ	0.22 U	0.22 U	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	0.23 U	0.23 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 UJ	0.23 U	0.23 U	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	0.14 U	0.14 U	1 U	1 U	0.14 U	1 U	0.14 UJ	0.14 U	0.14 U	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	0.38 U	0.38 U	2.5 U	2.5 U	0.38 U	2.5 U	0.38 UJ	0.38 U	0.38 U	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	0.23 U	0.23 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 UJ	0.23 U	0.23 U	N/A	N/A	N/A
EPA 8260	1,2-Trichloroethane	Null	ug/L	0.33 U	0.33 U	2.5 U	2.5 U	0.33 U	2.5 U	0.33 UJ	0.33 U	0.33 U	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	2.5 U	2.5 U	0.26 U	2.5 U	0.26 UJ	0.26 U	0.26 U	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	0.17 U	0.17 U	2.5 U	2.5 U	0.17 U	2.5 U	0.17 UJ	0.17 U	0.17 U	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	1.1 U	1.1 U	12 U	12 U	1.1 U	12 U	1.1 UJ	1.1 U	1.1 U	N/A	N/A	N/A
EPA 8260	2-Hexanone	Null	ug/L	0.34 U	0.34 U	12 U	12 U	0.34 U	12 U	0.34 UJ	0.34 U	0.34 U	N/A	N/A	N/A
	Acetone	1700	ug/L	5500	5860	4860	*	6550 J	5840	3500 J	5310	2520	*	2140	1640
	Benzene	114	ug/L	0.065 U	0.065 U	2.5 U	1 U	0.065 U	2.5 U	0.065 UJ	0.065 U	0.065 U	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	0.22 U	0.22 U	2.5 U	2.5 U	0.22 U	2.5 U	0.22 UJ	0.22 U	0.22 U	N/A	N/A	N/A
EPA 8260	Bromodichloromethane	Null	ug/L	0.15 U	0.15 U	2.5 U	2.5 U	0.15 U	2.5 U	0.15 UJ	0.15 U	0.15 U	N/A	N/A	N/A
	Bromofrom	Null	ug/L	0.25 U	0.25 U	2.5 U	2.5 U	0.25 U	2.5 U	0.25 UJ	0.25 U	0.25 U	N/A	N/A	N/A
	Bromoform	Null	ug/L	0.37 U	0.37 U	2.5 U	2.5 U	0.37 U	2.5 U	0.37 UJ	0.37 U	0.37 U	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	0.16 U	0.16 U	5 U	5 U	0.16 U	5 U	0.16 UJ	0.16 U	0.16 U	N/A	N/A	N/A
EPA 8260	Carbon tetrachloride	Null	ug/L	0.24 U	0.24 U	2.5 U	2.5 U	0.24 U	2.5 U	0.24 UJ	0.24 U	0.24 U	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	0.12 U	0.12 U	2.5 U	2.5 U	0.12 U	2.5 U	0.12 UJ	0.12 U	0.12 U	N/A	N/A	N/A
	Chloroethane	Null	ug/L	0.48 U	0.48 U	2.5 U	2.5 U	0.48 U	2.5 U	0.48 UJ	0.48 U	0.48 U	N/A	N/A	N/A
	Chloroform	Null	ug/L	0.16 U	0.16 U	2.5 U	2.5 U	0.16 U	2.5 U	0.16 UJ	0.16 U	0.16 U	N/A	N/A	N/A
EPA 8260	Chloromethane	Null	ug/L	0.21 U	0.21 U	2.5 U	2.5 U	0.21 U	2.5 U	0.21 UJ	0.21 U	0.21 U	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	0.2 U	0.2 U	2.5 U	2.5 U	0.2 U	2.5 U	0.2 UJ	0.2 U	0.2 U	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	0.19 U	0.19 U	2.5 U	2.5 U	0.19 U	2.5 U	0.19 UJ	0.19 U	0.19 U	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dibromochloromethane	Null	ug/L	0.22 U	0.22 U	2.5 U	2.5 U	0.22 U	2.5 U	0.22 UJ	0.22 U	0.22 U	N/A	N/A	N/A

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW24															
Method	Analyte	Screening Value	Units	July 27, 2014 Field Sample	July 28, 2014 Field Sample	July 31, 2014 Field Sample	August 3, 2014 Field Sample	Field Duplicate	August 6, 2014 Field Sample	August 9, 2014 Field Sample	August 12, 2014 Field Sample	August 15, 2014 Field Sample	August 18, 2014 Field Sample	August 21, 2014 Field Sample	August 24, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 7470A	Tin	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	270 U	931 J	270 U	270 U	270 U	270 U	
EPA 8015C	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	152 U	152 U	152 U	152 U	152 U	
	TPH (C10-C28)	Null	ug/L	1200	1700	3200	2300	3400	3300	2900	2900	2100	1100	1400	
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	270 U	N/A	N/A	N/A	N/A	N/A	
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	152 U	N/A	N/A	N/A	N/A	
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Acetone	1700	ug/L	538	825	1160	858	765	442	544	1220	680	342	395	
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24											
				August 27, 2014		August 30, 2014		August 31, 2014		September 2, 2014		September 5, 2014		September 8, 2014	
				Field Sample	N/A	Field Sample	N/A	Field Sample	Field Duplicate	Field Sample	N/A	Field Sample	N/A	Field Sample	N/A
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
EPA 8015C	TPH (C10-C28)	Null	ug/L	1600	1100	190	210	220	590	550	490	430	300	160	210
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	357	313	92.1	93.4	26.2 U	49.3 J	40.2 J	25.2	12.3	2.6 U	2.6 U	2.6 U
EPA 8260	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24											
				September 26, 2014 Field Sample	September 29, 2014 Field Sample	October 2, 2014 Field Sample	October 5, 2014 Field Sample	October 8, 2014 Field Sample	October 11, 2014 Field Sample	October 14, 2014 Field Sample	October 15, 2014 Field Sample	October 18, 2014 Field Sample	October 21, 2014 Field Sample	October 24, 2014 Field Sample	October 27, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
EPA 8260	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	120	14 U	120	14 U	120	13 U	13 U	14 U	14 U	14 U	110	13 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	270 U						
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
EPA 8260	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW24					SW25				
				October 30, 2014 Field Sample	November 2, 2014 Field Sample	November 5, 2014 Field Sample	November 8, 2014 Field Sample	November 11, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	11900	8700	5000 U	5000 U	*
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	2400	2000	310 U	*	1900
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	240	220	200	*	270
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	50 U	50 U	*	50 U	50 U
EPA 300.0	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	50 U	50 U	50 U	N/A	50 U
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	77.3	16 U	398 J	3250	*
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	3.9 U	3.9 U	3.9 U	3.9 U	248
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	5.5	8.3	9.2	8.4	5.1
EPA 353.2	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	164	169	182	228	*
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	127000	134000	137000	139000	109000
EPA 6010B	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	0.93 U	0.93 U	*	0.93 U	0.93 U
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	1.9 U	1.9 U	5.4	1.9 U	1.9 U
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	394	401	747	3670	*
EPA 7470A	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	2.1 U	3.7 U	3.7 U	3.7 U	3.7 U
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	28900	30200	32000	32900	24600
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	4360	3960	4300	4220	*
EPA 8015	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	4540	4670	4830	5880	*
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	90900	99000	104000	109000	*
EPA 8015C	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	1670	1670	1700	1750	*
	Tin	100	ug/L	N/A	N/A	N/A	N/A	N/A	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	1.0 U	1.2 U	1.2 U	1.2 U	1.2 U
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
EPA 8015	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	5000 U	5000 U	5000 U	5000 U	5000 U
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	ug/L	14 U	14 U	15 U	13 U	14 U	1100	620	520	330	*
EPA 8260	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.16 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.19 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.22 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,2-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.14 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	0.38 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.22 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.33 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.26 U	2.5 U	2.5 U	2.5 U	2.5 U
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.17 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	1.1 U	12 U	12 U	12 U	1.1 U
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.34 U	12 U	12 U	12 U	12 U
	Acetone	1700	ug/L	2.6 U	302	50 U	50 U	50 U	13 J				
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	0.065 U	1 U	1 U	1 U	*
EPA 8260	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.22 U	2.5 U	2.5 U	2.5 U	2.5 U
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.15 U	2.5 U	2.5 U	2.5 U	2.5 U
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.37 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	0.16 U	5.0 U	5.0 U	5.0 U	5.0 U
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.24 U	2.5 U	2.5 U	2.5 U	2.5 U
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.12 U	2.5 U	2.5 U	2.5 U	2.5 U
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.48 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.16 U	2.5 U	2.5 U	2.5 U	2.5 U
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.21 U	2.5 U	2.5 U	2.5 U	2.5 U
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	0.2 U	2.5 U	2.5 U	2.5 U	2.5 U
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.19 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.22 U	2.5 U	2.5 U	2.5 U	0.22 U
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	0.12 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.21 U	2.5 U	2.5 U	2.5 U	2.5 U
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.19 U	2 U	2 U	1 U	*
METHYL ISOBUTYL KETONE	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.29 U	12 U	12 U	12 U	12 U
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.23 U	5 U	2.5 U	2.5 U	2.5 U
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	0.1 U	2.5 U	2.5 U	2.5 U	2.5 U
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	0.18 U	2.5 U	2.5 U	2.5 U	2.5 U
EPA 8260	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.12 U	1 U	1 U	1 U	0.12 U
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	0.11 U	2.5 U	2.5 U	2.5 U	2.5 U

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

SW25													SW25																				
Method	Analyte	Screening Value	Units	July 16, 2014	July 17, 2014	July 18, 2014	July 20, 2014	July 23, 2014	July 26, 2014	July 29, 2014	August 1, 2014	August 4, 2014	August 7, 2014	August 10, 2014	August 13, 2014																		
				Field Sample	Field Sample	Field Sample	Field Sample	Field Sample																									
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
9014	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
9056A	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
ASTM D516-90...	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																	
EPA 300.0	Sulfate	1000	U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U										
	Bromide	Null	ug/L	1600	1500 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J	2000 J														
EPA 353.2	Fluoride	Null	ug/L	250	200	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260								
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																
EPA 6010B	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																
	Aluminum	87	ug/L	1510	535	848 J	848 J	848 J	848 J	848 J	848 J	848 J	848 J	848 J	848 J	848 J	848 J	848 J	848 J	848 J													
EPA 6010B	Antimony	80	ug/L	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U															
	Arsenic	148	ug/L	3.6 U	5.3	3.6 U	5.3	3.6 U	5.3	3.6 U	5.3	3.6 U	5.3	3.6 U	5.3	3.6 U	5.3	3.6 U	5.3	3.6 U	5.3												
EPA 6010B	Barium	220	ug/L	148	124	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141						
	Beryllium	Null	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U													
EPA 6010B	Cadmium	Null	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U												
	Chromium	42	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U												
EPA 6010B	Cobalt	24	ug/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U												
	Copper	1.58	ug/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U											
EPA 6010B	Iron	1000	ug/L	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920			
	Lead	1.17	ug/L	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U										
EPA 7470A	Lithium	.14	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U											
	Magnesium	Null	ug/L	26400	25800	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300	26300			
EPA 8015	Manganese	50	ug/L	2030	1720	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500		
	Nickel	28.9	ug/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U										
EPA 8015C	Potassium	373000	ug/L	4450	4000	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	
	Silver	Null	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U										
EPA 8260	Sodium	Null	ug/L	87100	82700	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500	87500		
	Strontium	1500	ug/L	1420	1340	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	
EPA 8260	Tin	180	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U									
	Zinc	65	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U								
EPA 7470A	Mercury	Null	ug/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U									
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
EPA 8015	Ethylene glycol	192000	ug/L	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U									
	ISOPROPYL ALCOHOL	Null	ug/L	250	200	170	170	110	130	150	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
EPA 8015C	TPH (C10-C28)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,1-Dichloroethane	Null	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U								
EPA 8260	1,1-Dichloroethene	Null	ug/L	0.23 U	0.23 U																												

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color

Detectio
Exceeda

No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25T											
				August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015C	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U					
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U					
	TPH (C10-C28)	Null	ug/L	13 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U				
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	1,2-Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U					
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofrom	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25T											
				September 24, 2014 Field Sample	September 27, 2014 Field Sample	October 1, 2014 Field Sample	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90... EPA 300.0 EPA 353.2	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A EPA 8015 EPA 8015C	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8260	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Titanium	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U	152 U
	TPH (C10-C28)	Null	ug/L	13 U	13 U	13 U	13 U	14 U	14 U	14 U	14 U	14 U	14 U	13 U	14 U
	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A EPA 8015 EPA 8015C	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25T		SW26		Williams SW	
				October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	September 20, 2014 Field Sample	August 18, 2014 Field Sample
6020	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
9014	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
9056A	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Orthophosphate as P	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D516-90...	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
EPA 300.0	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
EPA 353.2	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	87	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	80	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	148	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	220	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	42	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	24	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Copper	1.58	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	1000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	1.17	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	50	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	28.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	373000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Silver	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Sodium	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Strontium	1500	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	T	100	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7470A	Zinc	65.7	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	N/A	N/A	N/A	270 U	N/A	270 U
EPA 8015	Ethylene glycol	192000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	152 U	N/A	152 U
	TPH (C10-C28)	Null	ug/L	13 U	14 U	13 U	14 U	14 U	14 U
EPA 8015C	Acetone	1700	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	ISOPROPYL ALCOHOL	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Ethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloro-1,2,2-trifluoroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dibromo-3-Chloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-DIBROMOETHANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene (Total)	970	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Ethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	2200	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	1700	ug/L	2.6 U	2.6 U				
	Benzene	114	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Bromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	15	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	590	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodichloromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Ethane	14	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Isopropylbenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	m,p-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl acetate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
METHYL ISOBUTYL KETONE	Methyl tert-butyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene cyclohexane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	32	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	253	ug/L	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	GP08				GP23				GP24				GP26			
				July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	August 14, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	N/A	N/A	0.18 U	0.18 U	0.18 U	0.18 U	N/A	0.18 U	0.18 U	N/A	0.18 U	0.23 U	N/A	
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	0.23 U	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	N/A	0.23 U	0.23 U	N/A	0.23 U	0.23 U	N/A	
	Trichloroethene	Null	ug/L	0.15 U	0.15 U	N/A	N/A	0.15 U	0.15 U	0.15 U	0.15 U	N/A	0.15 U	0.15 U	N/A	0.15 U	0.15 U	N/A	
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloroform	Null	ug/L	0.13 U	0.13 U	N/A	N/A	0.13 U	0.13 U	0.13 U	0.13 U	N/A	0.13 U	0.13 U	N/A	0.13 U	0.13 U	N/A	
	Xylenes (Total)	27	ug/L	0.31 U	0.31 U	N/A	N/A	0.31 U	0.31 U	0.31 U	0.31 U	N/A	0.31 U	0.31 U	N/A	0.31 U	0.31 U	N/A	
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3,4-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl) methane	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno[1,2,3-ij]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GCAL SOP HPLC	TTPC	Null	ug/L	N/A	N/A	N/A	0.85 UJ	0.924 U	N/A	0.85 UJ	0.85 UJ	N/A							
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	GP28		PD01		PD02		July 3, 2014		Field Sample		July 4, 2014		Field Sample		July 5, 2014		Field Sample		July 6, 2014		Field Sample		July 7, 2014		Field Sample		July 8, 2014		Field Sample		July 9, 2014		Field Sample		July 10, 2014		Field Sample	
				July 14, 2014	Field Sample	July 20, 2014	Field Sample	July 3, 2014	Field Sample	July 3, 2014	Field Sample	July 3, 2014	Field Sample	July 4, 2014	Field Sample	July 5, 2014	Field Sample	July 6, 2014	Field Sample	July 7, 2014	Field Sample	July 8, 2014	Field Sample	July 9, 2014	Field Sample	July 10, 2014	Field Sample	July 10, 2014	Field Sample												
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U		0.18 U		0.75 U		0.75 U		0.18 U		0.18 U		0.18 U		2.5 U																							
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U		0.23 U		0.58 U		0.58 U		0.23 U		0.23 U		2.5 U																									
	Trichloroethene	Null	ug/L	0.15 U		0.15 U		0.8 U		0.8 U		0.15 U		0.15 U		0.15 U		0.15 U		0.15 U		0.15 U		0.15 U		0.15 U		0.15 U		1 U											
	Trichlorofluoromethane	Null	ug/L	N/A		N/A		1.1 U		1.1 U		N/A		N/A		N/A		N/A																							
	1-Chloroethane	Null	ug/L	0.13 U		0.13 U		1.3 U		1.3 U		1.3 U		0.13 U		0.13 U		0.13 U		0.13 U		0.13 U		0.13 U		0.13 U		0.13 U		1 U											
	Xylenes (Total)	27	ug/L	0.31 U		0.31 U		1.7 U		4.0 U		1.7 U		0.31 U		1.0 U		0.25 U		0.25 U		0.24 U		0.24 U		0.24 U		0.24 U		0.24 U		5.0 U									
	1-Methylphthalene	2.1	ug/L	N/A		N/A		N/A		N/A		N/A		N/A		1 U		1 U		0.25 U		0.25 U		0.24 U		0.24 U		0.24 U		0.24 U		5.3 U									
	1,1-Biphenyl	Null	ug/L	N/A		N/A		0.43 U		N/A		0.42 U		N/A		N/A		N/A		1 U		0.26 U		0.27 U		0.26 U		0.26 U		0.26 U		5.3 U									
	1,2-Dichlorobenzene	Null	ug/L	N/A		N/A		N/A		N/A		N/A		N/A		1 U		1 U		0.3 U		0.3 U		0.29 U		0.29 U		0.29 U		0.29 U		5.3 U									
	1,2,4-Trichlorobenzene	Null	ug/L	N/A		N/A		N/A		N/A		N/A		N/A		1 U		1 U		0.28 U		0.29 U		0.28 U		0.28 U		0.28 U		0.28 U		5.3 U									
	1,3-Dichlorobenzene	Null	ug/L	N/A		N/A		N/A		N/A		N/A		N/A		1 U		1 U		0.3 U		0.31 U		0.29 U		0.29 U		0.29 U		0.29 U		5.3 U									
	1,4-Dichlorobenzene	Null	ug/L	N/A		N/A		N/A		N/A		N/A		N/A		1 U		1 U		0.25 U		0.25 U		0.25 U		0.25 U		0.25 U		0.25 U		5.3 U									
	2-Chlorophenanthrene	Null	ug/L	N/A		N/A		0.16 U		N/A		0.15 U		1 U		1 U		0.22 U		0.22 U		0.21 U		0.21 U		0.21 U		0.21 U		0.21 U		5.3 U									
	2-Chlorophenol	Null	ug/L	N/A		N/A		1.7 U		N/A		1.7 U		N/A		1 U		1 U		0.28 U		0.28 U		0.28 U		0.28 U		0.28 U		0.28 U		5.3 U									
	2-Methylnaphthalene	330	ug/L	N/A		N/A		0.13 U		N/A		0.13 U		N/A		0.12 U		1 U		0.28 U		0.29 U		0.28 U		0.28 U		0.28 U		0.28 U		5.3 U									
	2-Methyltoluene (Cresol)	67	ug/L	N/A		N/A		0.80 U		N/A		0.80 U		N/A		0.70 U		1 U		0.28 U		0.28 U		0.27 U		0.27 U		0.27 U		0.27 U		5.3 U									
	2-Nitroaniline	Null	ug/L	N/A		N/A		3.0 U		N/A		3.6 U		N/A		2.0 U		2.6 U		0.5 U		0.5 U		0.50 U		0.50 U		0.50 U		0.50 U		26.3 U									
	2-Nitrophenol	Null	ug/L	N/A		N/A		1.8 U		N/A		1.7 U		N/A		1 U		1 U		0.28 U		0.28 U		0.27 U		0.27 U		0.27 U		0.27 U		5.3 U									
	2,2-oxabif[1-chloropropane]	Null	ug/L	N/A		N/A		0.2 U		N/A		0.2 U		N/A		0.24 U		0.24 U		0.24 U		0.23 U		0.23 U		0.23 U		0.23 U		0.23 U		3.6 U									
	2,4-Dichlorophenol	Null	ug/L	N/A		N/A		0.34 U		N/A		0.34 U		N/A		1 U		1 U		0.26 U		0.26 U		0.25 U		0.25 U		0.25 U		0.25 U		5.3 U									
	2,4-Dimethylphenol	Null	ug/L	N/A		N/A		0.88 U		N/A		0.86 U		N/A		1 U		1 U		0.34 U		0.34 U		0.33 U		0.33 U		0.33 U		0.33 U		5.3 U									
	2,4-Dinitrophenol	Null	ug/L	N/A		N/A		6.3 U		N/A		6.2 U		N/A		2.6 U		2.6 U		1 U		1.1 U		1 U		1 U		1 U		1 U		52.6 U									
	2,4-Dinitrotoluene	Null	ug/L	N/A		N/A		0.55 U		N/A		0.54 U		N/A		1 U		1 U		0.25 U		0.25 U		0.24 U		0.24 U		0.24 U		0.24 U		5.3 U									
	2,4,5-Trichlorophenol	Null	ug/L	N/A		N/A		1.6 U		N/A		1.5 U		N/A		2.6 U		2.6 U		0.41 U		0.42 U		0.41 U		0.41 U		0.41 U		0.41 U		5.3 U									
	2,4,6-Trichlorophenol	Null	ug/L	N/A		N/A		1.8 U		N/A		1.8 U		N/A		1 U		1 U		0.26 U		0.26 U		0.25 U		0.25 U		0.25 U		0.25 U		5.3 U									
	2,6-Dinitrotoluene	81	ug/L	N/A		N/A		0.82 U		N/A		0.81 U		N/A		1 U		1 U		0.27 U		0.27 U		0.26 U		0.26 U		0.26 U		0.26 U		5.3 U									
	3,3'-Dichlorobenzidine	Null	ug/L	N/A		N/A		3.3 U		N/A		3.2 U		N/A		1 U		1 U		0.30 U		0.33 U		0.32 U		0.32 U		0.32 U		0.32 U		16.5 U									
	384-Methylphenol(m,p-Cresol)	Null	ug/L	N/A		N/A		1.2 U		N/A		1.1 U		N/A		2.1 U		2.1 U		0.73 U		0.74 U		0.72 U		0.71 U		0.71 U		0.71 U		10.5 U									
	4-Bromophenyl phenyl ether	Null	ug/L	N/A		N/A		0.65 U		N/A		0.64 U		N/A		1 U		1 U		0.28 U		0.28 U		0.27 U		0.27 U		0.27 U		0.27 U		5.3 U									
	4-Chloroaniline	Null	ug/L	N/A		N/A		0.78 U		N/A		0.76 U		N/A		1 U		1 U		0.24 U		0.25 U		0.24 U		0.24 U		0.24 U		0.24 U		10.5 U									
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A		N/A		0.91 U		N/A		0.89 U		N/A		1 U		1 U		0.15 U		0.15 U		0.14 U		0.14 U		0.14 U		0.14 U		10.5 U									
	4-Nitroaniline	Null	ug/L	N/A		N/A		0.52 U		N/A		0.51 U		N/A		1 U		1 U		0.23 U		0.24 U		0.23 U		0.23 U		0.23 U		0.23 U		5.3 U									
	4-Nitrophenol	Null	ug/L	N/A		N/A		6.7 U		N/A		6.5 U		N/A		1 U		1 U		0.4 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		52.6 U									
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A		N/A		2.3 U		N/A		2.2 U		N/A		2.6 U		2.6 U		0.26 U		0.27 U		0.26 U		0.26 U		0.26 U		0.26 U		26.3 U									
	Acenaphthene	4840	ug/L	N/A		N/A		0.16 U		N/A		0.15 U		N/A		0.15 U		1 U		0.21 U		0.21 U		0.21 U		0.21 U		0.21 U		0.21 U		5.3 U									
	Acenaphthylene	4840	ug/L	N/A		N/A		0.16 U		N/A		0.16 U		N/A		1 U		1 U		0.26 U		0.26 U		0.26 U		0.26 U		0.26 U		0.26 U		5.3 U									
	Anthracene	0.035	ug/L	N/A		N/A		2.9 U		N/A		2.9 U		N/A		2.9 U		1 U		0.24 U		0.24 U		0.24 U		0.24 U		0.24 U		0.24 U		5.3 U									
	Benzol[b]fluoranthene	Null	ug/L	N/A		N/A		0.21 U		N/A		0.21 U		N/A		0.63 U		1 U		0.32 U		0.33 U		0.32 U		0.31 U		0.31 U		0.31 U		5.3 U									
	Benzol[h,j]perylene	7.64	ug/L	N/A		N/A		0.16 U		N/A		0.15 U		N/A		0.62 U		1 U		0.26 U		0.26 U		0.25 U		0.25 U		0.25 U		0.25 U		5.3 U									
	Benzol[k]fluoranthene	Null	ug/L	N/A		N/A		0.56 U		N/A		0.55 U		N/A		1 U		1 U		0.26 U		0.27 U		0.26 U		0.26 U		0.26 U		0.26 U		5.3 U									
	Benzol[a]anthracene	0.025	ug/L	N/A		N/A		0.15 U		N/A		0.15 U		N/A		0.15 U		1 U		0.21 U		0.21 U		0.21 U		0.21 U		0.21 U		0.21 U		5.3 U									
	Benzol[a]pyrene	0.014	ug/L	N/A		N/A		0.14 U		N/A		0.14 U		N/A		25.8 U		26 U		0.17 U		0.17 U		0.16 U		0.16 U		0.16 U		0.16 U		0.16 U		52.6 U							
	Benzol[b]pyrene	Null	ug/L	N/A		N/A		N/A		N/A		1 U		N/A		0.26 U		0.26 U		0.26 U		0.26 U		10.5 U																	
	Benzyl alcohol	8.6	ug/L	N/A		N/A																																			

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

PD03															
Method	Analyte	Screening Value	Units	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	Field Duplicate	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 19, 2014 Field Sample	July 22, 2014 Field Sample	July 25, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.18 U	0.18 U	2.5 U	0.18 U	0.18 U	0.18 U	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.23 U	0.23 U	2.5 U	0.23 U	0.23 UJ	0.23 U	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	1 U	1 U	1 U	0.15 U	0.15 U	1 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	1 U	1 U	1 U	0.13 U	0.13 U	1 U	0.13 U	0.13 U	0.13 U	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	5 U	5 U	5 U	0.31 U	0.31 U	5 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	N/A
	1-Methylphthalene	2.1	ug/L	5.2 U	5.6 U	5.1 U	0.26 U	0.26 U	5 U	0.27 U	0.25 U	0.25 U	N/A	N/A	N/A
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.27 U	0.28 U	5 U	0.28 U	0.27 U	0.26 U	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.31 U	0.31 U	5 U	0.32 U	0.3 U	0.3 U	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.3 U	0.3 U	5 U	0.31 U	0.29 U	0.28 U	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.31 U	0.32 U	5 U	0.32 U	0.31 U	0.3 U	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.26 U	0.26 U	5 U	0.27 U	0.26 U	0.25 U	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	5.2 U	5.6 U	5.1 U	0.23 U	0.23 U	5 U	0.23 U	0.22 U	0.22 U	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	5.2 U	5.6 U	5.1 U	0.3 U	0.3 U	5 U	0.31 U	0.28 U	0.28 U	N/A	N/A	N/A
	2-Methylphenol (Cresol)	67	ug/L	5.2 U	5.6 U	5.1 U	0.29 U	0.29 U	5 U	0.31 U	0.28 U	0.28 U	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	25.8 U	27.8 U	25.3 U	0.31 U	0.31 U	25 U	0.32 U	0.3 U	0.3 U	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	5.2 U	5.6 U	5.1 U	0.29 U	0.29 U	5 U	0.3 U	0.28 U	0.28 U	N/A	N/A	N/A
	2,2-oxobis[1-chloropropane]	Null	ug/L	3.5 U	3.8 U	3.4 U	0.25 U	0.25 U	3.4 U	0.25 U	0.24 U	0.24 U	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	5.2 U	5.6 U	5.1 U	0.27 U	0.27 U	5 U	0.28 U	0.25 U	0.26 U	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	5.2 U	5.6 U	5.1 U	0.35 U	0.36 U	5 U	0.36 U	0.34 U	0.34 U	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	51.5 U	55.6 U	50.5 U	1.1 U	1.1 U	50 U	1.1 U	1.1 U	1 U	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.26 U	0.26 U	5 U	0.27 U	0.25 U	0.25 U	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	5.2 U	5.6 U	5.1 U	0.43 U	0.44 U	5 U	0.45 U	0.42 U	0.41 U	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/L	5.2 U	5.6 U	5.1 U	0.27 U	0.27 U	5 U	0.28 U	0.26 U	0.26 U	N/A	N/A	N/A
	2,6-Dinitrotoluene	81	ug/L	5.2 U	5.6 U	5.1 U	0.28 U	0.28 U	5 U	0.29 U	0.27 U	0.27 U	N/A	N/A	N/A
	3,3-Dichlorobenzidine	Null	ug/L	25.8 U	27.8 U	25.3 U	0.43 U	0.49 U	25 U	0.51 U	0.47 U	0.46 U	N/A	N/A	N/A
	384-Methylphenol(m,p-Cresol)	Null	ug/L	10.3 U	11.1 U	10.1 U	0.34 U	0.34 U	10 U	0.35 U	0.33 U	0.32 U	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	5.2 U	5.6 U	5.1 U	0.29 U	0.29 U	5 U	0.3 U	0.28 U	0.28 U	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	10.3 U	11.1 U	10.1 U	0.25 U	0.26 U	10 U	0.26 U	0.25 U	0.24 U	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	10.3 U	11.1 U	10.1 U	0.15 U	0.15 U	10 U	0.16 U	0.15 U	0.15 U	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	5.2 U	5.6 U	5.1 U	0.24 U	0.25 U	5 U	0.25 U	0.24 U	0.23 U	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	25.8 U	27.8 U	25.3 U	0.47 U	0.48 U	25 U	0.49 U	0.46 U	0.45 U	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	51.5 U	55.6 U	50.5 U	0.42 U	0.43 U	50 U	0.44 U	0.41 U	0.4 U	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	25.8 U	27.8 U	25.3 U	0.28 U	0.28 U	25 U	0.29 U	0.27 U	0.26 U	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.28 U	0.29 U	5 U	0.29 U	0.28 U	0.27 U	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	5.2 U	5.6 U	5.1 U	0.22 U	0.22 U	5 U	0.22 U	0.21 U	0.21 U	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	5.2 U	5.6 U	5.1 U	0.22 U	0.22 U	5 U	0.23 U	0.22 U	0.21 U	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	0.27 U	0.27 U	N/A	0.28 U	0.26 U	0.26 U	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.21 U	0.21 U	5 U	0.22 U	0.2 U	0.2 U	N/A	N/A	N/A
	Benzol[h]perylene	7.64	ug/L	5.2 U	5.6 U	5.1 U	0.43 U	0.43 U	5 U	0.44 U	0.42 U	0.41 U	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.27 U	0.28 U	5 U	0.28 U	0.27 U	0.26 U	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	5.2 U	5.6 U	5.1 U	0.25 U	0.25 U	5 U	0.26 U	0.24 U	0.24 U	N/A	N/A	N/A
	Benzol[j]perylene	0.014	ug/L	5.2 U	5.6 U	5.1 U	0.27 U	0.28 U	5 U	0.28 U	0.27 U	0.26 U	N/A	N/A	N/A
	Benzol[u]perylene	Null	ug/L	51.5 U	55.6 U	50.5 U	16.4 U	16.6 U	50 U	16.9 U	16 U	15.7 U	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	10.3 U	11.1 U	10.1 U	0.24 U	0.24 U	10 U	0.25 U	0.24 U	0.23 U	N/A	N/A	N/A
	Bis[2-chloroethyl]methane	Null	ug/L	5.2 U	5.6 U	5.1 U	0.24 U	0.25 U	5 U	0.25 U	0.24 U	0.23 U	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl)ether	Null	ug/L	5.2 U	5.6 U	5.1 U	0.32 U	0.32 U	5 U	0.33 U	0.31 U	0.3 U	N/A	N/A	N/A
	Bis(2-ethylhexyl)phthalate	0.3	ug/L	2.6 U	5.6 U	2.5 U	0.47 U	0.48 U	2.5 U	0.49 U	0.46 U	0.45 U	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	5.2 U	5.6 U	5.1 U	0.3 U	0.31 U	5 U	0.32 U	0.3 U	0.29 U	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	5.2 U	5.6 U	5.1 U	0.25 U	0.25 U	5 U	0.26 U	0.24 U	0.24 U	N/A	N/A	N/A
	Chrysene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.25 U	0.25 U	5 U	0.26 U	0.24 U	0.24 U	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	5.2 U	5.6 U	5.1 U	0.42 U	0.42 U	5 U	0.43 U	0.41 U	0.4 U	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	5.2 U	5.6 U	5.1 U	0.3 U	0.31 U	5 U	0.31 U	0.3 U	0.29 U	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	5.2 U	5.6 U	5.1 U	0.45 U	0.46 U	5 U	0.51 U	0.48 U	0.47 U	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	5.2 U	5.6 U	5.1 U	0.27 U	0.27 U	5 U	0.28 U	0.26 U	0.26 U	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	5.2 U	5.6 U	5.1 U	0.26 U	0.26 U	5 U	0.27 U	0.25 U	0.25 U	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	5.2 U	5.6 U	5.1 U	0.31 U	0.31 U	5 U	0.32 U	0.3 U	0.29 U	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	5.2 U	5.6 U	5.1 U	0.24 U	0.24 U	5 U	0.24 U	0.23 U	0.23 U	N/A	N/A	N/A
	Fluorene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.22 U	0.23 U	5 U	0.23 U	0.22 U	0.21 U	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	2.6 U	2.8 U	2.5 U	0.35 U	0.36 U	2.5 U	0.37 U	0.35 U	0.34 U	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.28 U	0.28 U	5 U	0.29 U	0.27 U	0.27 U	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	20.6 U	22.2 U	20.2 U	0.5 U	0.51 U	20 U	0.52 U	0.49 U	0.48 U	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	5.2 U	5.6 U	5.1 U	0.34 U	0.34 U	5 U	0.35 U	0.33 U	0.32 U	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	5.2 U	5.6 U	5.1 U	0.52 U	0.53 U	5 U	0.54 U	0.51 U	0.5 U	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.25 U	0.25 U	5 U	0.25 U	0.23 U	0.23 U	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	5.2 U	5.6 U	5.1 U	0.23 U	0.23 U	5 U	0.23 U	0.22 U	0.22 U	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	10.3 U	11.1 U	10.1 U	0.31 U	0.31 U	10 U	0.32 U	0.3 U	0.3 U	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	5.2 U	5.6 U	5.1 U	0.5 U	0.51 U	5 U	0.52 U	0.49 U	0.48 U	N/A	N/A	N/A
	Naphthalene	13	ug/L	2.6 U	2.8 U	2.5 U	0.25 U	0.26 U	2.5 U	0.26 U	0.25 U	0.24 U	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	5.2 U	5.6 U	5.1 U	0.51 U	0.51 U	5 U	0.53 U	0.5 U	0.49 U	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	25.8 U	27.8 U	25.3 U	0.31 U	0.31 U	25 U	0.32 U	0.3 U	0.29 U	N/A	N/A	N/A
	Phen														

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color
■ Detection
■ Exceedance
■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PPD3											
				August 24, 2014 Field Sample	August 27, 2014 Field Sample	August 30, 2014 Field Sample	August 31, 2014 Field Sample	September 2, 2014 Field Sample	September 5, 2014 Field Sample	September 8, 2014 Field Sample	September 11, 2014 Field Sample	September 14, 2014 Field Sample	September 17, 2014 Field Sample	September 20, 2014 Field Sample	September 23, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[e]pyrene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-ij]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.876 U	0.924 U	0.85 U	0.867 UJ	0.895 U	0.895 U	0.85 U	0.85 U	1.77 U	0.914 U	0.934 U	0.885 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PPD3											
				September 26, 2014 Field Sample	September 29, 2014 Field Sample	October 2, 2014 Field Sample	October 5, 2014 Field Sample	October 8, 2014 Field Sample	October 11, 2014 Field Sample	October 14, 2014 Field Sample	October 15, 2014 Field Sample	October 18, 2014 Field Sample	October 21, 2014 Field Sample	October 24, 2014 Field Sample	October 27, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[e]pyrene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 U	0.85 U	0.924 U	0.934 U	0.85 U	1.7 U	1.77 U	0.904 U	0.924 U	1.89 U	0.924 U	0.924 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD03					PD04					PD05					PD06				
				October 30, 2014 Field Sample	November 2, 2014 Field Sample	November 5, 2014 Field Sample	November 8, 2014 Field Sample	November 11, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 4, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample						
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	38 U	0.18 U	0.18 U	0.18 U	N/A	N/A	N/A	N/A	N/A	0.18 U	0.18 U	0.18 U	0.18 U		
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	29 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U		
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	40 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A	N/A	0.15 U	0.15 U	0.15 U	0.15 U		
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	65 U	0.13 U	0.13 U	0.13 U	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.13 U	0.13 U		
	1-Chloro-1,1-dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	360 J	10.1	0.31 U	0.31 U	N/A	N/A	N/A	N/A	N/A	0.31 U	0.31 U	0.31 U	0.31 U		
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.24 U	0.51 U
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	0.43 U	N/A	N/A	N/A											
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.26 U	0.54 U
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.29 U	0.61 U
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.28 U	0.58 U
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.29 U	0.62 U
	2-Chlorophenanthrene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	2.1 U	2.1 U	0.24 U	0.52 U
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.7 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	2.1 U	2.1 U	0.21 U	0.45 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.28 U	0.59 U
	2-Methylnaphthalene (Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.6 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	2.1 U	2.1 U	0.27 U	0.57 U
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	3.8 U	132 U	2.6 U	5.2 U	5.2 U	N/A	N/A	N/A	N/A	2.9 U	5.2 U	5.2 U	0.29 U	0.61 U
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.8 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	2.1 U	2.1 U	0.27 U	0.57 U
	2,2-oxobis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.2 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	2.1 U	2.1 U	0.23 U	0.49 U
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.34 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	2.1 U	2.1 U	0.25 U	0.53 U
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.88 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	2.1 U	2.1 U	0.33 U	0.7 U
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	6.3 U	132 U	2.6 U	5.3 U	5.2 U	N/A	N/A	N/A	N/A	2.1 U	2.2 U	2.2 U	0.22 U	0.44 U
	2,4-Dinitrotoluene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.55 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.24 U	0.51 U	0.4 U	0.85 U
	2,4,5-Trichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.6 U	132 U	2.6 U	5.3 U	5.2 U	N/A	N/A	N/A	N/A	2.1 U	0.25 U	0.53 U	0.4 U	0.85 U
	2,4,6-Trichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.8 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.25 U	0.53 U	0.26 U	0.55 U
	2,6-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.82 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.26 U	0.54 U	0.95 U	1.0 U
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.2 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.27 U	0.57 U	0.6 U	0.7 U
	384-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.65 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.24 U	0.51 U	0.24 U	0.5 U
	Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.65 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.27 U	0.57 U	0.27 U	0.57 U
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.78 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.24 U	0.5 U	0.24 U	0.5 U
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.91 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.14 U	0.3 U	0.14 U	0.3 U
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.52 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.23 U	0.48 U	0.23 U	0.48 U
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.8 U	132 U	2.6 U	5.3 U	5.2 U	N/A	N/A	N/A	N/A	2.1 U	0.44 U	0.93 U	0.44 U	0.93 U
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	6.7 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.39 U	0.83 U	0.26 U	0.54 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.3 U	132 U	2.6 U	5.3 U	5.2 U	N/A	N/A	N/A	N/A	2.1 U	0.26 U	0.55 U	0.26 U	0.55 U
	Acenaphthene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.2 U	0.43 U
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.2 U	0.43 U
	Acenaphthene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.82 U	N/A	N/A	N/A										
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.21 U	0.44 U	0.21 U	0.44 U
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.92 U	N/A	N/A	N/A										
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.5 U	N/A	N/A	N/A										
	Benzol(<i>b</i>)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.19 U	0.41 U
	Benzol(<i>g,h</i>)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.4 U	0.84 U
	Benzol(<i>k</i>)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.26 U	0.54 U
	Benzol(<i>a</i>)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.23 U	0.49 U
	Benzol(<i>j</i>)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.25 U	0.54 U
	Benzol(<i>c</i>)phenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	132 U	26 U	53.5 U	52.4 U	15.3 U	32.4 U
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.23 U	0.48 U
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.6 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.23 U	0.48 U	0.23 U	0.48 U
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.26 U	N/A	N/A	N/A										
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.26 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.29 U	0.62 U	0.29 U	0.62 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.5 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.28 U	0.6 U	0.28 U	0.6 U
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.5 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.23 U	0.45 U	0.23 U	0.45 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	12 U	N/A	N/A	N/A										
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.16 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1 U	0.23 U	0.45 U	0.23 U	0.45 U
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.6 U	1 U	2.1 U	2.1 U	0.23 U	0.45 U
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.3 U	52.6 U	1 U	2.1 U	2.1 U	N/A	N/A	N/A	N/A	2.1				

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

PD07

Method	Analyte	Screening Value	Units	July 8, 2014			July 9, 2014			July 12, 2014			July 13, 2014			July 14, 2014			July 15, 2014			July 16, 2014		July 17, 2014		July 18, 2014		July 19, 2014		July 22, 2014			
				Field Sample			Field Sample			Field Sample			Field Sample			Field Sample			Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample				
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U			0.18 U			2.5 U			0.18 U			2.5 U			0.18 U			0.18 U			0.18 U			0.18 U		N/A			
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U			0.23 U			2.5 U			0.23 U			2.5 U			0.23 U			0.23 U			0.23 U			0.23 U		N/A			
	Trichloroethene	Null	ug/L	0.15 U			0.15 U			1 U			0.15 U			1 U			0.15 U			0.15 U			0.15 U			0.15 U		N/A			
	Trichlorofluoromethane	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		N/A			
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U			0.13 U			1 U			0.13 U			1 U			0.13 U			0.13 U			0.13 U			0.13 U		N/A			
	Xylenes (Total)	27	ug/L	0.31 U			0.31 U			5 U			0.31 U			5 U			0.31 U			0.31 U			0.31 U			0.31 U		N/A			
	1-Methylnaphthalene	2.1	ug/L	*			0.26 ug/L			5.6 U			5.1 U			0.24 ug/L			5 U			0.48 ug/L			0.53 ug/L			1.2 U		0.24 ug/L			
	1,1-Biphenyl	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		N/A			
	1,2-Dichlorobenzene	Null	ug/L	*			0.28 ug/L			5.6 U			5.1 U			0.26 ug/L			5 U			0.51 ug/L			0.56 ug/L			1.3 U		0.25 ug/L			
	1,2,4-Trichlorobenzene	Null	ug/L	*			0.32 ug/L			5.6 U			5.1 U			0.29 ug/L			5 U			0.57 ug/L			0.64 ug/L			1.5 U		0.29 ug/L			
	1,3-Dichlorobenzene	Null	ug/L	*			0.3 U			5.6 U			5.1 U			0.28 ug/L			5 U			0.55 ug/L			0.61 ug/L			1.4 U		0.27 ug/L			
	1,4-Dichlorobenzene	Null	ug/L	*			0.32 ug/L			5.6 U			5.1 U			0.3 U			5 U			0.58 ug/L			0.64 ug/L			1.5 U		0.29 ug/L			
	2-Chloronaphthalene	Null	ug/L	*			0.27 ug/L			5.6 U			5.1 U			0.25 ug/L			5 U			0.48 ug/L			0.54 ug/L			1.2 U		0.24 ug/L			
	2-Chlorophenol	Null	ug/L	*			0.23 ug/L			5.6 U			5.1 U			0.21 ug/L			5 U			0.42 ug/L			0.47 ug/L			1.1 U		0.21 ug/L			
	2-Methylnaphthalene	330	ug/L	*			0.3 ug/L			5.6 U			5.1 U			0.28 ug/L			5 U			0.55 ug/L			0.61 ug/L			1.4 U		0.28 ug/L			
	2-Methylphenol (Cresol)	67	ug/L	*			0.20 ug/L			5.6 U			5.1 U			0.27 ug/L			5 U			0.54 ug/L			0.60 ug/L			1.4 U		0.27 ug/L			
	2-Nitroaniline	Null	ug/L	*			0.31 ug/L			26.1 U			25.0 U			0.29 ug/L			25 U			0.57 ug/L			0.63 ug/L			1.5 U		0.29 ug/L			
	2-Nitrophenol	Null	ug/L	*			0.29 ug/L			5.6 U			5.1 U			0.27 ug/L			5 U			0.54 ug/L			0.61 ug/L			1.4 U		0.27 ug/L			
	2,2-oxabif[1-chloropropane]	Null	ug/L	*			0.25 ug/L			3.8 U			3.4 U			0.23 ug/L			3.0 U			0.45 ug/L			0.51 ug/L			1.2 U		0.23 ug/L			
	2,4-Dichlorophenol	Null	ug/L	*			0.27 ug/L			5.6 U			5.1 U			0.25 ug/L			5 U			0.50 ug/L			0.56 ug/L			1.3 U		0.25 ug/L			
	2,4-Dimethylphenol	Null	ug/L	*			0.36 ug/L			5.6 U			5.1 U			0.33 ug/L			5 U			0.65 ug/L			0.72 ug/L			1.7 U		0.33 ug/L			
	2,4-Dinitrophenol	Null	ug/L	*			2.1 U			1.1 U			5.6 U			5.05 U			1 U			2 U			2.2 U			5.2 U		1 U		N/A	
	2,4-Dinitrotoluene	Null	ug/L	*			0.26 ug/L			5.6 U			5.1 U			0.24 ug/L			5 U			0.48 ug/L			0.53 ug/L			1.2 U		0.24 ug/L			
	2,4,5-Trichlorophenol	Null	ug/L	*			0.44 ug/L			5.6 U			5.1 U			0.41 ug/L			5 U			0.8 ug/L			0.89 ug/L			2 U		0.4 ug/L			
	2,4,6-Trichlorophenol	Null	ug/L	*			0.27 ug/L			5.6 U			5.1 U			0.25 ug/L			5 U			0.5 ug/L			0.56 ug/L			1.3 U		0.25 ug/L			
	2,6-Dinitrotoluene	81	ug/L	*			0.28 ug/L			28.1 U			25.3 U			0.26 ug/L			25 U			0.45 ug/L			0.58 ug/L			1.3 U		0.26 ug/L			
	3-Chlorobiphenyl	Null	ug/L	*			0.49 ug/L			10.1 U			10 U			0.32 ug/L			10 U			0.63 ug/L			0.77 ug/L			1.0 U		0.31 ug/L			
	3,3'-Dichlorobiphenyl	Null	ug/L	*			0.36 ug/L			11.2 U			10.1 U			0.72 ug/L			10 U			1.4 ug/L			1.6 ug/L			3.6 U		0.71 ug/L			
	384-Methylphenol(m,p-Cresol)	Null	ug/L	1.5 U			0.78 ug/L			11.2 U			10.1 U			0.64 ug/L			10 U			1.4 ug/L			1.6 ug/L			3.6 U		0.71 ug/L			
	4-Bromophenyl phenyl ether	Null	ug/L	*			0.29 ug/L			5.6 U			5.1 U			0.27 ug/L			5 U			0.64 ug/L			0.8 ug/L			1.4 U		0.27 ug/L			
	4-Chloro-3-methylphenol	Null	ug/L	*			0.26 ug/L			11.2 U			10.1 U			0.24 ug/L			10 U			0.47 ug/L			0.52 ug/L			1.2 U		0.24 ug/L			
	4-Chloroaniline	Null	ug/L	*			0.16 ug/L			11.2 U			10.1 U			0.14 ug/L			10 U			0.28 ug/L			0.31 ug/L			0.72 U		0.14 ug/L			
	4-Chlorophenyl phenyl ether	Null	ug/L	*			0.25 ug/L			5.6 U			5.1 U			0.23 ug/L			5 U			0.45 ug/L			0.5 U			1.2 U		0.23 ug/L			
	4-Nitroaniline	Null	ug/L	*			0.48 ug/L			28.1 U			25.3 U			0.44 ug/L			25 U			0.87 ug/L			0.97 ug/L			2.2 U		0.44 ug/L			
	4-Nitrophenol	Null	ug/L	*			0.43 ug/L			56.2 U			50.5 U			0.4 U			50 U			0.78 ug/L			0.87 ug/L			2 U		0.39 ug/L			
	4,6-Dinitro-2-methylphenol	Null	ug/L	*			0.28 ug/L			28.1 U			25.3 U			0.26 ug/L			25 U			0.51 ug/L			0.57 ug/L			1.3 U		0.26 ug/L			
	Acenaphthene	Null	ug/L	*			0.29 ug/L			5.6 U			5.1 U			0.27 ug/L			5 U			0.53 ug/L			0.58 ug/L			1.3 U		0.26 ug/L			
	Acenaphthylene	4840	ug/L	*			0.22 ug/L			5.6 U			5.1 U			0.21 ug/L			5 U			0.4 ug/L			0.45 ug/L			1 U		0.2 ug/L			
	Acenaphthene	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		N/A			
	Anthracene	0.035	ug/L	*			0.22 ug/L			5.6 U			5.1 U			0.21 ug/L			5 U			0.41 ug/L			0.45 ug/L			1 U		0.2 ug/L			
	Benzol[b]fluoranthene	Null	ug/L	*			0.28 ug/L			11.2 U			10.1 U			0.26 ug/L			10 U			0.45 ug/L			0.5 U			33.7 U		0.15 ug/L			
	Benzol[h,j]perylene	7.64	ug/L	*			0.25 ug/L			11.2 U			10.1 U			0.23 ug/L			10 U			0.45 ug/L			0.5 U			33.7 U		0.15 ug/L			
	Benzol[j]fluoranthene	Null	ug/L	*			0.28 ug/L			5.6 U			5.1 U			0.26 ug/L			5 U			0.45 ug/L			0.5 U			12 U		0.23 ug/L			
	Benzol[a]anthracene	0.025	ug/L	*			0.25 ug/L			5.6 U			5.1 U			0.24 ug/L			5 U			0.46 ug/L			0.51 ug/L			12 U		0.23 ug/L			
	Benzol[j]perylene	0.014	ug/L	*			0.28 ug/L			5.6 U			5.1 U			0.26 ug/L			5 U			0.46 ug/L			0.56 ug/L			1.3 U		0.25 ug/L			
	Benzol[b]fluoranthene	Null	ug/L	*			16.7 U			56.2 U			50.5 U			15.5 U			50 U			30.3 U			33.7 U			77.7 U		15.2 U			
	Benzol[b]fluoranthene	9.6	ug/L	*			0.28 ug/L			11.2 U			10.1 U			0.23 ug/L			10 U			0.45 ug/L			0.5 U			11 U		0.23 ug/L			
	Bis(2-chloroethyl) methane	Null	ug/L	*			0.25 ug/L			5.6 U			5.1 U			0.23 ug/L			5 U			0.45 ug/L			0.5 U			12 U		0.23 ug/L			
	Bis(2-chloroethyl) ether	Null	ug/L	*			0.32 ug/L			5.6 U			5.1 U			0.3 U			5 U			0.58 ug/L			0.65 ug/L			1.5 U		0.29 ug/L			
	Bis(2-chloroethyl)ether	Null	ug/L	*			0.32 ug/L			5.6 U			5.1 U			0.3 U			5 U			0.58 ug/L			0.65 ug/L			1.5 U		0.29 ug/L			
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	*			0.48 ug/L			6.6 U			6.6 U			0.45 ug/L																	

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD07												
				August 21, 2014 Field Sample	August 24, 2014 Field Sample	August 27, 2014 Field Sample	August 30, 2014 Field Sample	August 31, 2014 Field Sample	September 2, 2014 Field Sample	September 5, 2014 Field Sample	September 8, 2014 Field Sample	September 11, 2014 Field Sample	September 14, 2014 Field Sample	September 17, 2014 Field Sample	September 20, 2014 Field Sample	
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[e]pyrene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 9012	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GCAL SOP HPLC	TTPC	Null	ug/L	0.914 U	0.904 U	0.885 U	0.85 U	0.867 U	0.85 U	0.867 U	0.854 U	0.85 U	0.85 U	1.7 U	0.885 U	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

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N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW02		SW03		June 29, 2014 Field Sample	June 30, 2014 Field Sample	August 31, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014		July 4, 2014 Field Sample	July 5, 2014 Field Sample	SW04			
				June 29, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	July 2, 2014 Field Sample							Field Duplicate								
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	N/A	0.18 U	0.18 U	0.23 U	0.23 U	0.15 U	0.15 U	0.15 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.18 U	0.18 U		
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	0.23 U	N/A	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U		
	Trichloroethene	Null	ug/L	0.15 U	0.15 U	N/A	0.15 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U		
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Xylenes (Total)	27	ug/L	954	4.5	4.6	N/A	0.13 U	0.13 U	N/A	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U		
	1-Methylphthalene	2.1	ug/L	677	19.7 U	2.8	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichlorobenzene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	1,2,4-Trichlorobenzene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	1,3-Dichlorobenzene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	1,4-Dichlorobenzene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2-Chloronaphthalene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2-Chlorophenol	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2-Methylnaphthalene	330	ug/L	974	19.7 U	3.6	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2-Methylphenol (m,p-Cresol)	67	ug/L	101 U	19.7 U	6.9	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2-Nitroaniline	Null	ug/L	253	49.3 U	50.0	N/A	2.9 U	3.0 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U		
	2-Nitrophenol	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2,2-oxibis[1-chloropropane]	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2,4-Dichlorophenol	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2,4-Dimethylphenol	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2,4-Dinitrophenol	Null	ug/L	253	49.3 U	56.0	N/A	2.9 U	3.0 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U		
	2,4-Dinitrotoluene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	2,4,6-Trichlorophenol	Null	ug/L	253	49.3 U	56.0	N/A	2.9 U	3.0 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U		
	2,6-Dinitrotoluene	81	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	3,3'-Dichlorobenzidine	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
	3,4-Methylphenol(m,p-Cresol)	Null	ug/L	202	39.4 U	6.2	N/A	2.3 U	2.4 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	
	4-Bromophenyl phenyl ether	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	4-Chloroaniline	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	4-Chlorophenyl phenyl ether	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	4-Nitroaniline	Null	ug/L	253	49.3 U	56.0	N/A	2.9 U	3.0 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	
	4-Nitrophenol	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	4,6-Dinitro-2-methylphenol	Null	ug/L	253	49.3 U	56.0	N/A	2.9 U	3.0 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	
	Acenaphthene	4840	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Acenaphthylene	4840	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Azobenzene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol(b)fluoranthene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Benzol(h,j)perylene	7.64	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Benzol(k)fluoranthene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Benzol[a]anthracene	0.025	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Benzol(j)perylene	0.014	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	Benzol(b)perylene	Null	ug/L	2530	49.3 U	55.9 U	N/A	29.1 U	30.5 U	26 U	28.4 U	25.8 U	25.8 U	25.8 U	25.8 U	25.8 U	25.8 U	25.8 U	25.8 U	25.8 U	25.8 U	25.8 U
	Benzyl alcohol	8.6	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
	Bis(2-chlorovinyl)methane	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
	Butylbenzyl phthalate	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
	Chrysene	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
	Di-n-butyl phthalate	Null	ug/L	101 U	19.7 U	2.2 U	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.										

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW04															
Method	Analyte	Screening Value	Units	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	0.18 U	0.18 U	2.5 U	2.5 U	2.5 U	0.18 U	2.5 U	0.18 U	0.18 U	0.18 U
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U
	Trichloroethene	Null	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	1 U	1 U	1 U	0.15 U	1 U	0.15 U	0.15 U	0.15 U
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	1 U	1 U	1 U	0.13 U	1 U	0.13 U	0.13 U	0.13 U
	Xylenes (Total)	27	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U				
	1-Methylphenol	2.1	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	5.1 U	5 U	5.2 U	+	0.24 U	5.2 U	0.25 U	0.24 U
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.26 U	0.26 U	0.25 U	0.25 U	5.1 U	5 U	5.2 U	+	0.25 U	5.2 U	0.27 U	0.25 U
	1,2,4-Trichlorobenzene	Null	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	5.1 U	5 U	5.2 U	+	0.29 U	5.2 U	0.3 U	0.29 U
	1,3-Dichlorobenzene	Null	ug/L	0.28 U	0.28 U	0.27 U	0.27 U	5.1 U	5 U	5.2 U	+	0.27 U	5.2 U	0.29 U	0.27 U
	1,4-Dichlorobenzene	Null	ug/L	0.3 U	0.29 U	0.29 U	0.29 U	5.1 U	5 U	5.2 U	+	0.29 U	5.2 U	0.3 U	0.29 U
	2-Chlorophenol	Null	ug/L	0.25 U	0.24 U	0.24 U	0.24 U	5.1 U	5 U	5.2 U	+	0.24 U	5.2 U	0.25 U	0.24 U
	2-Chlorophenol	Null	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	5.1 U	5 U	5.2 U	+	0.21 U	5.2 U	0.22 U	0.21 U
	2-Methylnaphthalene	330	ug/L	0.28 U	0.28 U	0.27 U	0.27 U	5.1 U	5 U	5.2 U	+	0.28 U	5.2 U	0.29 U	0.28 U
	2-Methyltoluene (Cresol)	67	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	5.1 U	5 U	5.2 U	+	0.27 U	5.2 U	0.28 U	0.27 U
	2-Nitroaniline	Null	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	25.3 U	25 U	25.4 U	+	0.29 U	25.8 U	0.3 U	0.29 U
	2-Nitrophenol	Null	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	5.1 U	5 U	5.2 U	+	0.27 U	5.2 U	0.28 U	0.27 U
	2,2-oxobis[1-chloropropane]	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	3.4 U	3.5 U	+	0.23 U	3.5 U	0.24 U	0.23 U	0.23 U
	2,4-Dichlorophenol	Null	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	5.1 U	5 U	5.2 U	+	0.25 U	5.2 U	0.26 U	0.25 U
	2,4-Dimethylphenol	Null	ug/L	0.33 U	0.33 U	0.32 U	0.32 U	5.1 U	5 U	5.2 U	+	0.33 U	5.2 U	0.34 U	0.33 U
	2,4-Dinitrophenol	Null	ug/L	1 U	1 U	1 U	1 U	50.5 U	50 U	51.5 U	+	1 U	51.5 U	1.1 U	1 U
	2,4-Dinitrotoluene	Null	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	5.1 U	5 U	5.2 U	+	0.24 U	5.2 U	0.25 U	0.24 U
	2,4,5-Trichlorophenol	Null	ug/L	0.41 U	0.4 U	0.4 U	0.4 U	5.1 U	5 U	5.2 U	+	0.4 U	5.2 U	0.42 U	0.4 U
	2,4,6-Trichlorophenol	Null	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	5.1 U	5 U	5.2 U	+	0.25 U	5.2 U	0.26 U	0.25 U
	2,6-Dinitrotoluene	81	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	5.1 U	5 U	5.2 U	+	0.26 U	5.2 U	0.27 U	0.26 U
	3,3'-Dichlorobenzidine	Null	ug/L	0.45 U	0.45 U	0.44 U	0.44 U	25.3 U	25 U	25.8 U	+	0.45 U	25.8 U	0.47 U	0.45 U
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	0.72 U	0.71 U	0.71 U	0.71 U	10.1 U	10 U	10.3 U	+	0.71 U	10.3 U	0.74 U	0.71 U
	Bromophenyl phenyl ether	Null	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	5.1 U	5 U	5.2 U	+	0.27 U	5.2 U	0.28 U	0.27 U
	4-Chloro-3-methylphenol	Null	ug/L	0.24 U	0.24 U	0.23 U	0.23 U	10.1 U	10 U	10.3 U	+	0.24 U	10.3 U	0.25 U	0.24 U
	4-Chloroaniline	Null	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	10.1 U	10 U	10.3 U	+	0.14 U	10.3 U	0.15 U	0.14 U
	4-Chlorophenyl phenyl ether	Null	ug/L	0.23 U	0.23 U	0.23 U	0.22 U	5.1 U	5 U	5.2 U	+	0.23 U	5.2 U	0.24 U	0.23 U
	4-Nitroaniline	Null	ug/L	0.44 U	0.44 U	0.44 U	0.43 U	25.3 U	25 U	25.8 U	+	0.44 U	25.8 U	0.46 U	0.44 U
	4-Nitrophenol	Null	ug/L	0.4 U	0.39 U	0.39 U	0.39 U	50.5 U	50 U	51.5 U	+	0.39 U	51.5 U	0.41 U	0.39 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	0.26 U	0.26 U	0.26 U	0.25 U	25.3 U	25 U	25.8 U	+	0.26 U	25.8 U	0.27 U	0.26 U
	Acenaphthene	Null	ug/L	0.27 U	0.27 U	0.26 U	0.26 U	5.1 U	5 U	5.2 U	+	0.26 U	5.2 U	0.28 U	0.26 U
	Acenaphthylene	4840	ug/L	0.21 U	0.21 U	0.2 U	0.2 U	5.1 U	5 U	5.2 U	+	0.2 U	5.2 U	0.21 U	0.2 U
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	0.21 U	0.21 U	0.2 U	0.2 U	5.1 U	5 U	5.2 U	+	0.2 U	5.2 U	0.21 U	0.2 U
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	5.1 U	5 U	5.2 U	+	0.25 U	5.2 U	0.26 U	0.25 U
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	0.2 U	0.19 U	0.19 U	0.19 U	5.1 U	5 U	5.2 U	+	0.19 U	5.2 U	0.2 U	0.19 U
	Benzog(h)Perylene	7.64	ug/L	0.4 U	0.4 U	0.39 U	0.39 U	5.1 U	5 U	5.2 U	+	0.39 U	5.2 U	0.41 U	0.39 U
	Benzog(h)fluoranthene	Null	ug/L	0.26 U	0.26 U	0.25 U	0.25 U	5.1 U	5 U	5.2 U	+	0.25 U	5.2 U	0.26 U	0.25 U
	Benzog(j)anthracene	0.025	ug/L	0.24 U	0.23 U	0.23 U	0.23 U	5.1 U	5 U	5.2 U	+	0.23 U	5.2 U	0.24 U	0.23 U
	Benzog(j)perylene	0.014	ug/L	0.26 U	0.25 U	0.25 U	0.25 U	5.1 U	5 U	5.2 U	+	0.25 U	5.2 U	0.26 U	0.25 U
	Benzog(j)phenanthrene	Null	ug/L	15.5 U	15.3 U	15.2 U	15.1 U	50.5 U	50 U	51.5 U	+	15.2 U	51.5 U	15.9 U	15.2 U
	Benzyl alcohol	8.6	ug/L	0.23 U	0.23 U	0.22 U	0.22 U	10.1 U	10 U	10.3 U	+	0.23 U	10.3 U	0.23 U	0.23 U
	Bis(2-chloroethyl) methane	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	5.1 U	5 U	5.2 U	+	0.23 U	5.2 U	0.24 U	0.23 U
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	0.3 U	0.29 U	0.29 U	0.29 U	5.1 U	5 U	5.2 U	+	0.29 U	5.2 U	0.31 U	0.29 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	0.45 U	1	0.44 U	0.43 U	2.5 U	2.5 U	6.6	+	1.4	2.6 U	0.46 U	0.44 U
	Butyl benzyl phthalate	Null	ug/L	0.29 U	0.28 U	0.28 U	0.28 U	5.1 U	5 U	5.2 U	+	0.28 U	5.2 U	0.3 U	0.28 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	0.24 U	0.23 U	0.23 U	0.23 U	5.1 U	5 U	5.2 U	+	0.23 U	5.2 U	0.24 U	0.23 U
	Chrysene	Null	ug/L	0.24 U	0.23 U	0.23 U	0.23 U	5.1 U	5 U	5.2 U	+	0.23 U	5.2 U	0.24 U	0.23 U
	Di-n-butyl phthalate	Null	ug/L	0.39 U	0.39 U	0.38 U	0.38 U	5.1 U	5 U	5.2 U	+	0.39 U	5.2 U	0.4 U	0.39 U
	Di-n-octyl phthalate	Null	ug/L	0.29 U	0.28 U	0.28 U	0.28 U	5.1 U	5 U	5.2 U	+	0.29 U	5.2 U	0.3 U	0.29 U
	Dibenzofuran	Null	ug/L	0.46 U	0.46 U	0.45 U	0.45 U	5.1 U	5 U	5.2 U	+	0.46 U	5.2 U	0.48 U	0.46 U
	Dibenzo-furan	Null	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	5.1 U	5 U	5.2 U	+	0.25 U	5.2 U	0.26 U	0.25 U
	Diethyl phthalate	Null	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	5.1 U	5 U	5.2 U	+	0.24 U	5.2 U	0.25 U	0.24 U
	Dimethyl phthalate	Null	ug/L	0.29 U	0.29 U	0.28 U	0.28 U	5.1 U	5 U	5.2 U	+	0.28 U	5.2 U	0.3 U	0.28 U
	Fluoranthene	1.9	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	5.1 U	5 U	5.2 U	+	0.22 U	5.2 U	0.23 U	0.22 U
	Fluorene	Null	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	5.1 U	5 U	5.2 U	+	0.21 U	5.2 U	0.22 U	0.21 U
	Hexachloro-1,3-butadiene	Null	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	2.5 U	2.5 U	2.6 U	+	0.33 U	2.6 U	0.34 U	0.33 U
	Hexachlorobenzene	Null	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	5.1 U	5 U	5.2 U	+	0.26 U	5.2 U	0.27 U	0.26 U
	Hexachlorocyclopentadiene	Null	ug/L	0.47 U	0.47 U	0.46 U	0.46 U	20.2 U	20 U	20.6 U	+	0.47 U	20.6 U	0.49 U	0.47 U
	Hexachloroethane	Null	ug/L	0.32 U	0.31 U	0.31 U	0.31 U	5.1 U	5 U	5.2 U	+	0.31 U	5.2 U	0.32 U	0.31 U
	Indeno[1,2,3-j]Pyrrole	4.31	ug/L	0.49 U	0.49 U	0.48 U	0.48 U	5.1 U	5 U	5.2 U	+	0.49 U	5.2 U	0.51 U	0.49 U
	Indeno[1,2,3-j]Pyrrole	Null	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	5.1 U	5 U	5.2 U	+	0.21 U	5.2 U	0.21 U	0.21 U
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	5.1 U	5 U	5.2 U	+	0.21 U	5.2 U	0.22 U	0.21 U
	N-Nitrosodiphenylamine	Null	ug/L	0.47 U	0.47 U	0.46 U	0.46 U	5.1 U	5 U	5.2 U	+	0.47 U	5.2 U	0.49 U	0.47 U
	Naphthalene	13	ug/L	0.24 U	0.24 U	0.23 U	0.23 U	2.5 U	2.5 U	2.6 U	+	0.24 U	2.6 U	0.25 U	0.24 U
	Nitrobenzene	Null													

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

													SW04		
Method	Analyte	Screening Value	Units	July 18, 2014 Field Sample	July 21, 2014 Field Sample	July 24, 2014 Field Sample	July 27, 2014 Field Sample	July 30, 2014 Field Sample	August 2, 2014 Field Sample	August 5, 2014 Field Sample	August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	0.13 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichrobenzene	Null	ug/L	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p Cresol)	67	ug/L	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	0.34 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	0.42 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/L	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,6-Dinitrotoluene	81	ug/L	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	0.47 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p Cresol)	Null	ug/L	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	0.74 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	0.46 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	0.41 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	0.41 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[j]perylene	0.014	ug/L	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]perylene	Null	ug/L	16 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	0.20 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chlorovinyl)methane	Null	ug/L	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	0.46 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	0.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	0.48 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	0.34 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	0.49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	0.51 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	0.49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.867 U	0.85 U	0.85 UJ	0.85 U	0.85 U	1.7 U	0.85 U	0.85 U	0.85 U	0.876 U	25.6	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[j]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[j]perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04										
				August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	September 7, 2014 Field Sample	Field Duplicate	September 10, 2014 Field Sample	September 13, 2014 Field Sample	September 16, 2014 Field Sample	September 19, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(l)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 UJ	0.85 U	0.85 UJ	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.867 U	1.7 U	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04											
				September 25, 2014		September 26, 2014		October 1, 2014		October 4, 2014		October 7, 2014		October 10, 2014	
				Field Sample	N/A	Field Sample	N/A	Field Sample	Field Duplicate	Field Sample	N/A	Field Sample	N/A	Field Sample	N/A
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	0.85 U	ug/L	0.85 U	N/A	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.924 U	1.7 U	0.85 U
	2-Methylnaphthalene	330	ug/L	0.85 U	N/A	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.924 U	1.7 U	0.85 U
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04				SW06			
				October 29, 2014		November 1, 2014		November 4, 2014		November 7, 2014	
				Field Sample	Field Duplicate						
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.18 U	0.18 U
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.15 U	0.15 U
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.30 U	0.31 U
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2-Methylphenol (m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.5	1.0 U
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.5 U	2.8 U
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.5 U	2.8 U
	2,4-Dinitrotoluene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2,4,5-Trichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.5 U	2.8 U
	2,4,6-Trichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	2,6-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.5 U	3.0 U
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.0 U	2.2 U
	Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.5 U	2.8 U
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.5 U	2.8 U
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
	Antracone	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Benzol(h)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Benzol(k)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
	Benzol[b]anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	24.9 U	27.9 U
	Benzol[b]phenanthrene	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.9	2.4
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Indeno(1,2,3-j)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	N-Nitrosodimethylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.5 U	2.8 U
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	2.1 U
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	2.1 U
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 U	0.85 U	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(h)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(k)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW06															
Method	Analyte	Screening Value	Units	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.18 U					
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U					
	Trichloroethene	Null	ug/L	0.15 U	1 U	1 U	1 U	1 U	1 U	0.15 U					
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U	1 U	1 U	1 U	1 U	1 U	0.13 U					
	Xylenes (Total)	27	ug/L	0.31 U	5 U	5 U	5 U	5 U	5 U	0.31 U					
	1-Methylnaphthalene	2.1	ug/L	1 U	2.1 U	1.1 U	0.49 U	0.48 U	0.25 U	0.24 U	5.2 U	5.2 U	5 U	5.1 U	0.25 U
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	1,2-Dichlorobenzene	Null	ug/L	1 U	2.1 U	1.1 U	0.52 U	0.51 U	0.27 U	0.26 U	5.2 U	5.2 U	5 U	5.1 U	0.26 U
	1,2,4-Trichlorobenzene	Null	ug/L	1 U	2.1 U	1.1 U	0.59 U	0.58 U	0.31 U	0.29 U	5.2 U	5.2 U	5 U	5.1 U	0.3 U
	1,3-Dichlorobenzene	Null	ug/L	1 U	2.1 U	1.1 U	0.56 U	0.55 U	0.29 U	0.28 U	5.2 U	5.2 U	5 U	5.1 U	0.28 U
	1,4-Dichlorobenzene	Null	ug/L	1 U	2.1 U	1.1 U	0.59 U	0.59 U	0.31 U	0.3 U	5.2 U	5.2 U	5 U	5.1 U	0.3 U
	2-Chloronaphthalene	Null	ug/L	1 U	2.1 U	1.1 U	0.49 U	0.49 U	0.26 U	0.25 U	5.2 U	5.2 U	5 U	5.1 U	0.25 U
	2-Chlorophenol	Null	ug/L	1 U	2.1 U	1.1 U	0.43 U	0.42 U	0.22 U	0.21 U	5.2 U	5.2 U	5 U	5.1 U	0.22 U
	2-Methylnaphthalene	330	ug/L	1 U	2.1 U	1.1 U	0.56 U	0.55 U	0.28 U	0.27 U	5.2 U	5.2 U	5 U	5.1 U	0.28 U
	2-Methyltoluene (Cresol)	67	ug/L	1 U	2.1 U	1.1 U	0.50 U	0.54 U	0.26 U	0.27 U	5.2 U	5.2 U	5 U	5.1 U	0.28 U
	2-Nitroaniline	Null	ug/L	2.6 U	5.3 U	2.7 U	0.58 U	0.58 U	0.3 U	0.26 U	26 U	25 U	25 U	25 U	25 U
	2-Nitrophenol	Null	ug/L	1 U	2.1 U	1.1 U	0.55 U	0.54 U	0.28 U	0.27 U	5.2 U	5.2 U	5 U	5.1 U	0.28 U
	2,2-oxobis[1-chloropropane]	Null	ug/L	1 U	2.1 U	1.1 U	0.47 U	0.46 U	0.24 U	0.23 U	3.5 U	3.5 U	3.4 U	3.4 U	0.23 U
	2,4-Dichlorophenol	Null	ug/L	1 U	2.1 U	1.1 U	0.51 U	0.5 U	0.27 U	0.25 U	5.2 U	5.2 U	5 U	5.1 U	0.26 U
	2,4-Dimethylphenol	Null	ug/L	1 U	2.1 U	1.1 U	0.67 U	0.66 U	0.33 U	0.32 U	5.2 U	5.2 U	5 U	5.1 U	0.34 U
	2,4-Dinitrophenol	Null	ug/L	2.6 U	5.3 U	2.7 U	2.1 U	2 U	1.1 U	5.2 U	5.2 U	5 U	5.0 U	5.0 U	
	2,4-Dinitrotoluene	Null	ug/L	1 U	2.1 U	1.1 U	0.49 U	0.48 U	0.25 U	0.24 U	5.2 U	5.2 U	5 U	5.1 U	0.25 U
	2,4,5-Trichlorophenol	Null	ug/L	2.6 U	5.3 U	2.7 U	0.82 U	0.8 U	0.42 U	0.41 U	5.2 U	5.2 U	5 U	5.1 U	0.41 U
	2,4,6-Trichlorophenol	Null	ug/L	1 U	2.1 U	1.1 U	0.51 U	0.5 U	0.27 U	0.25 U	5.2 U	5.2 U	5 U	5.1 U	0.26 U
	2,6-Dinitrotoluene	81	ug/L	1 U	2.1 U	1.1 U	0.53 U	0.52 U	0.28 U	1.5	5.2 U	5.2 U	5 U	5.1 U	0.27 U
	3,3'-Dichlorobenzidine	Null	ug/L	2.6 U	5.3 U	2.7 U	0.91 U	0.9 U	0.47 U	0.45 U	26 U	26 U	25 U	25 U	25 U
	3,8-Methylphenol(m,p Cresol)	Null	ug/L	2.1 U	4.3 U	2.2 U	1.5 U	1.4 U	0.75 U	0.72 U	10.4 U	10.4 U	10 U	10.1 U	0.73 U
	Bromophenyl phenyl ether	Null	ug/L	1 U	2.1 U	1.1 U	0.65 U	0.64 U	0.38 U	0.37 U	5.2 U	5.2 U	5 U	5.1 U	0.28 U
	4-Chloro-3-methylphenol	Null	ug/L	1 U	2.1 U	1.1 U	0.48 U	0.47 U	0.25 U	0.24 U	10.4 U	10.4 U	10 U	10.1 U	0.24 U
	4-Chloroaniline	Null	ug/L	1 U	2.1 U	1.1 U	0.29 U	0.28 U	0.15 U	0.14 U	10.4 U	10.4 U	10 U	10.1 U	0.15 U
	4-Chlorophenyl phenyl ether	Null	ug/L	1 U	2.1 U	1.1 U	0.46 U	0.46 U	0.24 U	0.23 U	5.2 U	5.2 U	5 U	5.1 U	0.23 U
	4-Nitroaniline	Null	ug/L	2.6 U	5.3 U	2.7 U	0.89 U	0.88 U	0.46 U	0.44 U	26 U	26 U	25 U	25 U	0.45 U
	4-Nitrophenol	Null	ug/L	1 U	2.1 U	1.1 U	0.8 U	0.79 U	0.42 U	0.4 U	5.2 U	5.2 U	5 U	5.0 U	0.4 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	2.6 U	5.3 U	2.7 U	0.52 U	0.52 U	0.27 U	0.26 U	5.2 U	5.2 U	5 U	5.1 U	0.26 U
	Acenaphthene	Null	ug/L	1 U	2.1 U	1.1 U	0.54 U	0.53 U	0.28 U	0.27 U	5.2 U	5.2 U	5 U	5.1 U	0.27 U
	Acenaphthylene	4840	ug/L	1 U	2.1 U	1.1 U	0.41 U	0.41 U	0.21 U	0.21 U	5.2 U	5.2 U	5 U	5.1 U	0.21 U
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Anthracene	0.035	ug/L	1 U	2.1 U	1.1 U	0.42 U	0.41 U	0.22 U	0.21 U	5.2 U	5.2 U	5 U	5.1 U	0.21 U
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Azobenzene	Null	ug/L	1 U	2.1 U	1.1 U	0.51 U	0.5 U	0.26 U	0.25 U	N/A	N/A	N/A	N/A	0.25 U
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Benzofluoranthene	Null	ug/L	1 U	2.1 U	1.1 U	0.4 U	0.39 U	0.21 U	0.2 U	5.2 U	5.2 U	5 U	5.1 U	0.2 U
	Benzog(h,j)perylene	7.64	ug/L	1 U	2.1 U	1.1 U	0.81 U	0.79 U	0.42 U	0.4 U	5.2 U	5.2 U	5 U	5.1 U	0.41 U
	Benzog(h,j)fluoranthene	Null	ug/L	1 U	2.1 U	1.1 U	0.52 U	0.51 U	0.27 U	0.26 U	5.2 U	5.2 U	5 U	5.1 U	0.26 U
	Benzog[a]anthracene	0.025	ug/L	1 U	2.1 U	1.1 U	0.47 U	0.47 U	0.25 U	0.24 U	5.2 U	5.2 U	5 U	5.1 U	0.24 U
	Benzog(j)pyrene	0.014	ug/L	1 U	2.1 U	1.1 U	0.52 U	0.51 U	0.27 U	0.26 U	5.2 U	5.2 U	5 U	5.1 U	0.26 U
	Benzene	Null	ug/L	26 U	53.2 U	27.3 U	31.1 U	30.6 U	16.1 U	15.5 U	52.1 U	52.1 U	50 U	50.5 U	15.6 U
	Benzyl alcohol	8.6	ug/L	1 U	2.1 U	1.1 U	0.48 U	0.45 U	0.24 U	0.23 U	5.2 U	5.2 U	5 U	5.1 U	0.23 U
	Bis(2-chlorohexyl)methane	Null	ug/L	1 U	2.1 U	1.1 U	0.46 U	0.48 U	0.24 U	0.23 U	5.2 U	5.2 U	5 U	5.1 U	0.23 U
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Bis(2-chloroethyl)ether	Null	ug/L	1 U	2.1 U	1.1 U	0.6 U	0.59 U	0.31 U	0.3 U	5.2 U	5.2 U	5 U	5.1 U	0.3 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	1 U	2.2	1.4	0.9 U	0.88 U	1.1	0.45 U	2.6 U	2.6 U	2.5 U	2.5 U	0.45 U
	Butyl benzyl phthalate	Null	ug/L	1 U	2.1 U	1.1 U	0.58 U	0.57 U	0.3 U	0.29 U	5.2 U	5.2 U	5 U	5.1 U	0.29 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Carbazole	Null	ug/L	1 U	2.1 U	1.1 U	0.47 U	0.47 U	0.25 U	0.24 U	5.2 U	5.2 U	5 U	5.1 U	0.24 U
	Chrysene	Null	ug/L	1 U	2.1 U	1.1 U	0.47 U	0.47 U	0.25 U	0.24 U	5.2 U	5.2 U	5 U	5.1 U	0.24 U
	Di-n-butyl phthalate	Null	ug/L	1 U	2.1 U	1.1 U	0.79 U	0.78 U	0.41 U	0.39 U	5.2 U	5.2 U	5 U	5.1 U	0.4 U
	Di-n-octyl phthalate	Null	ug/L	1 U	2.1 U	1.1 U	0.58 U	0.57 U	0.3 U	0.29 U	5.2 U	5.2 U	5 U	5.1 U	0.29 U
	Dibenzofuran	Null	ug/L	1 U	2.1 U	1.1 U	0.53 U	0.52 U	0.26 U	0.25 U	5.2 U	5.2 U	5 U	5.1 U	0.27 U
	Dibenzofuran	Null	ug/L	1 U	2.1 U	1.1 U	0.51 U	0.5 U	0.27 U	0.26 U	5.2 U	5.2 U	5 U	5.1 U	0.26 U
	Diethyl phthalate	Null	ug/L	1 U	2.1 U	1.1 U	0.49 U	0.48 U	0.25 U	0.24 U	5.2 U	5.2 U	5 U	5.1 U	0.25 U
	Dimethyl phthalate	Null	ug/L	1 U	2.1 U	1.1 U	0.58 U	0.57 U	0.3 U	0.29 U	5.2 U	5.2 U	5 U	5.1 U	0.29 U
	Fluoranthene	1.9	ug/L	1 U	2.1 U	1.1 U	0.45 U	0.44 U	0.23 U	0.22 U	5.2 U	5.2 U	5 U	5.1 U	0.23 U
	Fluorene	Null	ug/L	1 U	2.1 U	1.1 U	0.42 U	0.42 U	0.22 U	0.21 U	5.2 U	5.2 U	5 U	5.1 U	0.21 U
	Hexachloro-1,3-butadiene	Null	ug/L	1 U	2.1 U	1.1 U	0.67 U	0.66 U	0.35 U	0.33 U	2.6 U	2.6 U	2.5 U	2.5 U	0.34 U
	Hexachlorobenzene	Null	ug/L	1 U	2.1 U	1.1 U	0.53 U	0.52 U	0.27 U	0.26 U	5.2 U	5.2 U	5 U	5.1 U	0.26 U
	Hexachlorocyclopentadiene	Null	ug/L	1 U	2.1 U	1.1 U	0.95 U	0.94 U	0.49 U	0.47 U	20.8 U	20.8 U	20 U	20.2 U	0.48 U
	Hexachloroethane	Null	ug/L	1 U	2.1 U	1.1 U	0.64 U	0.63 U	0.33 U	0.32 U	5.2 U	5.2 U	5 U	5.1 U	0.32 U
	Indeno[1,2,3-ij]pyrene	4.31	ug/L	1 U	2.1 U	1.1 U	0.99 U	0.98 U	0.52 U	0.49 U	5.2 U	5.2 U	5 U	5.1 U	0.5 U
	Methylphenol, 3 & 4	Null	ug/L	1 U	2.1 U	1.1 U	0.62 U	0.61 U	0.21 U	0.2 U	5.2 U	5.2 U	5 U	5.1 U	0.31 U
	M-Nitrosodimethylamine	Null	ug/L	1 U	2.1 U	1.1 U	0.59 U	0.58 U	0.31 U	0.29 U	10.4 U	10.4 U	10 U	10.1 U	0.3 U
	N-Nitrosodimethylamine	Null	ug/L	1 U	2.1 U	1.1 U	0.95 U	0.94 U	0.49 U	0.47 U	5.2 U	5.2 U	5 U	5.1 U	0.48 U
	Naphthalene	13	ug/L	1 U	2.1 U	1.1 U	0.48 U	0.47 U	0.25 U	0.24 U	2.6 U	2.6 U	2.5 U	2.5 U	0.24 U
	Nitrobenzene	Null	ug/L	1 U	2.1 U	1.1 U	0.96 U	0.95 U	0.5 U	0.48 U	5.2 U	5.2 U	5 U	5.1 U	0.48 U
	Pentachlorophenol	Null	ug/L	2.6 U	5.3 U	2									

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW06															
Method	Analyte	Screening Value	Units	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014 Field Sample	Field Duplicate	July 23, 2014 Field Sample	July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	August 7, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	2.5 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	1 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trifluoroethane	Null	ug/L	1 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	5 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	5.2 U	2.6 U	0.26 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	5.2 U	2.8 U	0.28 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	5.2 U	3.1 U	0.31 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	5.2 U	3 U	0.3 U	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	5.2 U	3.2 U	0.32 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	5.2 U	2.6 U	0.26 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	5.2 U	2.3 U	0.23 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	5.2 U	3 U	0.3 U	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol (m,p-Cresol)	67	ug/L	5.2 U	2.9 U	0.29 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	25.8 U	5.1 U	0.31 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	5.2 U	2.9 U	0.29 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	3.5 U	2.5 U	0.25 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	5.2 U	2.7 U	0.27 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	5.2 U	3.5 U	0.33 U	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	51.5 U	11 U	1.1 U	1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	5.2 U	2.6 U	0.26 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	5.2 U	4.3 U	0.43 U	0.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/L	5.2 U	2.7 U	0.27 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,6-Dinitrotoluene	81	ug/L	5.2 U	2.8 U	0.28 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	25.8 U	4.8 U	0.48 U	0.45 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,4-Methylphenol(m,p Cresol)	Null	ug/L	10.3 U	3.4 U	0.34 U	0.32 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	5.2 U	2.9 U	0.29 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	10.3 U	2.5 U	0.25 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	5.2 U	2.5 U	0.25 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	25.8 U	4.7 U	0.47 U	0.44 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	51.5 U	4.2 U	0.42 U	0.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	25.8 U	2.8 U	0.28 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	5.2 U	2.9 U	0.29 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	5.2 U	2.2 U	0.22 U	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	5.2 U	2.2 U	0.22 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	10.3 U	2.4 U	0.24 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azrazone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	2.7 U	0.27 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	5.2 U	2.1 U	0.21 U	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	5.2 U	4.3 U	0.43 U	0.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	5.2 U	2.7 U	0.27 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	5.2 U	2.5 U	0.25 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	5.2 U	2.7 U	0.27 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[e]anthracene	Null	ug/L	51.5 U	16.5 U	1.65 U	1.54 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	10.3 U	2.4 U	0.24 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	5.2 U	2.5 U	0.25 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) ether	0.3	ug/L	5.2 U	3.2 U	0.32 U	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl)phthalate	0.3	ug/L	5.2 U	3.1 U	0.31 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	5.2 U	2.5 U	0.25 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	5.2 U	2.5 U	0.25 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	5.2 U	4.2 U	0.42 U	0.39 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	5.2 U	3.1 U	0.31 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	5.2 U	4.9 U	0.49 U	0.46 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	5.2 U	2.7 U	0.27 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	5.2 U	2.6 U	0.26 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	5.2 U	2.4 U	0.24 U	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	5.2 U	2.2 U	0.22 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	2.6 U	3.6 U	0.36 U	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	5.2 U	2.8 U	0.28 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	20.6 U	5.1 U	0.51 U	0.47 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	5.2 U	3.4 U	0.34 U	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	5.2 U	5.3 U	0.53 U	0.49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	5.2 U	2.3 U	0.23 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	10.3 U	3.1 U	0.31 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	2.6 U	2.5 U	0.25 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	5.2 U	5.1 U	0.51 U	0.48 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	25.8 U	3.1 U	0.31 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	5.2 U	2.5 U	0.25 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	5.2 U	2.9 U	0.29 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	5.2 U	3 U	0.3 U	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	6.28	N/A	1.72 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014													

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW06															
Method	Analyte	Screening Value	Units	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A								
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A								
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A								
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A								
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A								
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A								
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A								
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A								
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A								
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A								
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A								
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A								
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A								
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A								
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A								
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A								
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A								
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A								
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A								
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A								
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A								
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A								
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A								
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A								
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A								
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A								
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A								
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A								
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A								
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A								
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A								
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A								
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A								
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A								
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A								
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A								
	Benzog(h)Perylene	7.64	ug/L	N/A	N/A	N/A	N/A								
	Benzog(h)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A								
	Benzog(j)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A								
	Benzog(j)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A								
	Benzog(t)anthracene	Null	ug/L	N/A	N/A	N/A	N/A								
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A								
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A								
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A								
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A								
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A								
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A								
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A								
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A								
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A								
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A								
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A								
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A								
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A								
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A								
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A								
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A								
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A								
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A								
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A								
	Indeno[1,2,3-ij]Perylene	4.31	ug/L	N/A	N/A	N/A	N/A								
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A								
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A								
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A								
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A								
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A								
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A								
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A								
	Phenol	180	ug/L	N/A	N/A	N/A	N/A								
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A								
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A								
GCAL SOP HPLC	TTPC	Null	ug/L	0.988 U	0.85 U	0.85 U	8.85	0.904 U	0.85 U	0.85 UU	0.904 U	0.859 U	0.85 U	0.85 U	
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A								
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A								
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A								
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A								
	Benzog(h)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A								
	Benzog(h)Perylene	7.64	ug/L	N/A	N/A	N/A	N/A								
	Benzog(k)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A								
	Benzog(j)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A								
MA-EPH	Benzog(j)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A								

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW06											
				September 18, 2014			September 21, 2014			September 24, 2014			September 27, 2014		
				Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A									
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A									
	Trichloroethene	Null	ug/L	N/A	N/A	N/A									
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A									
	1-Chloro-1,1-dichloroethane	Null	ug/L	N/A	N/A	N/A									
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A									
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A									
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A									
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A									
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A									
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A									
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A									
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A									
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A									
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A									
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A									
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A									
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A									
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A									
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A									
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A									
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A									
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A									
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A									
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A									
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A									
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A									
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A									
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A									
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A									
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A									
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A									
	Acenaphthene	Null	ug/L	N/A	N/A	N/A									
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A									
	Acenaphthene	Null	ug/L	N/A	N/A	N/A									
	Anthracene	0.035	ug/L	N/A	N/A	N/A									
	Atrazine	Null	ug/L	N/A	N/A	N/A									
	Azobenzene	Null	ug/L	N/A	N/A	N/A									
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A									
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A									
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A									
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A									
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A									
	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A									
	Benzene	Null	ug/L	N/A	N/A	N/A									
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A									
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A									
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A									
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A									
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A									
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A									
	Caprolactam	Null	ug/L	N/A	N/A	N/A									
	Carbazole	Null	ug/L	N/A	N/A	N/A									
	Chrysene	Null	ug/L	N/A	N/A	N/A									
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A									
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A									
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A									
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A									
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A									
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A									
	Fluorene	Null	ug/L	N/A	N/A	N/A									
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A									
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A									
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A									
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A									
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A									
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A									
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A									
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A									
	Naphthalene	13	ug/L	N/A	N/A	N/A									
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A									
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A									
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A									
	Phenol	180	ug/L	N/A	N/A	N/A									
	Pyrene	0.3	ug/L	N/A	N/A	N/A									
	Cyanide	5.2	ug/L	N/A	N/A	N/A									
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 U	0.85 U	1.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7 U	0.85 U	1.7 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A									
	Acenaphthene	Null	ug/L	N/A	N/A	N/A									
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A									
	Anthracene	0.035	ug/L	N/A	N/A	N/A									
	Benzog(b)fluoranthene	Null	ug/L	N/A	N/A	N/A									
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A									
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A									
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A									
MA-EPH	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A									

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW06							SW07						
				October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	June 29, 2014 Field Sample	July 1, 2014 Field Sample	July 3, 2014 Field Sample	July 3, 2014 Field Duplicate	July 4, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 5, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2-Methylphenol (Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.6 U	2.7 U	2.5 U	2.6 U	2.5 U	2.5 U	2.5 U	
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2,2-oxobis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.6 U	2.7 U	2.5 U	2.6 U	2.5 U	2.5 U	2.5 U	
	2,4-Dinitrotoluene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	2,6-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	384-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.1 U	2.2 U	2 U	2.1 U	2 U	2 U	2 U	
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.6 U	2.7 U	2.5 U	2.6 U	2.5 U	2.5 U	2.5 U	
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.6 U	2.7 U	2.5 U	2.6 U	2.5 U	2.5 U	2.5 U	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8270	Benzol(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Benzol(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Benzol(k)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Benzol[b]anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	25.8 U	27.3 U	25.4 U	26 U	25.4 U	25.1 U	25.1 U	
	Benzol[b]phenol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	2.9	1 U	1 U	1 U	1 U	1 U	
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1.1 U	1 U	1 U	1 U	1 U	1 U	
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Dibenzo-p-dioxin	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	N-Nitrosodimethylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	2.6 U	2.7 U	2.5 U	2.6 U	2.5 U	2.5 U	2.5 U	
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 U	0.85 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.67 J	4.72 J	
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol(k)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A												

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW07										SW08		
				July 6, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	2.5 U	2.5 U	2.5 U	2.5 U	0.18 U	2.5 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	Trichloroethene	Null	ug/L	0.15 U	1 U	1 U	1 U	1 U	0.15 U	1 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U	1 U	1 U	1 U	1 U	0.13 U	1 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
	Xylenes (Total)	27	ug/L	0.31 U	5 U	5 U	5 U	5 U	0.31 U	5 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
	1-Methylphthalene	2.1	ug/L	0.25 ug/L	5.1 U	5.1 U	5.1 U	5.1 U	0.26 ug/L	5.1 U	0.25 ug/L	0.24 ug/L	0.24 ug/L	0.24 ug/L	1.1 U	1.3 U
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.26 U	5.1 U	5.1 U	5.1 U	5.1 U	0.27 U	5.1 U	0.27 U	0.26 U	0.25 U	0.25 U	1.1 U	1.3 U
	1,2,4-Trichlorobenzene	Null	ug/L	0.3 U	5.1 U	5.1 U	5.1 U	5.1 U	0.31 U	5.1 U	0.3 U	0.29 U	0.29 U	0.29 U	1.1 U	1.3 U
	1,3-Dichlorobenzene	Null	ug/L	0.28 U	5.1 U	5.1 U	5.1 U	5.1 U	0.29 U	5.1 U	0.29 U	0.28 U	0.27 U	0.27 U	1.1 U	1.3 U
	1,4-Dichlorobenzene	Null	ug/L	0.3 U	5.1 U	5.1 U	5.1 U	5.1 U	0.31 U	5.1 U	0.31 U	0.29 U	0.29 U	0.29 U	1.1 U	1.3 U
	2-Chlorophenol	Null	ug/L	0.25 U	5.1 U	5.1 U	5.1 U	5.1 U	0.26 U	5.1 U	0.26 U	0.25 U	0.24 U	0.24 U	1.1 U	1.3 U
	2-Methylnaphthalene	330	ug/L	0.28 U	5.1 U	5.1 U	5.1 U	5.1 U	0.29 U	5.1 U	0.28 U	0.28 U	0.27 U	0.27 U	1.1 U	1.3 U
	2-Methyltoluene (Cresol)	67	ug/L	0.55 U	5.1 U	5.1 U	5.1 U	5.1 U	0.55 U	5.1 U	0.55 U	0.54 U	0.54 U	0.54 U	1.1 U	1.3 U
	2-Nitroaniline	Null	ug/L	0.3 U	25.3 U	25.3 U	25.3 U	25.3 U	0.31 U	25.3 U	0.3 U	0.29 U	0.29 U	0.29 U	2.6 U	3.3 U
	2-Nitrophenol	Null	ug/L	0.28 U	5.1 U	5.1 U	5.1 U	5.1 U	0.29 U	5.1 U	0.28 U	0.27 U	0.27 U	0.27 U	1.1 U	1.3 U
	2,2-oxobis[1-chloropropane]	Null	ug/L	0.24 U	3.4 U	3.5 U	3.4 U	3.4 U	0.24 U	3.4 U	0.24 U	0.23 U	0.23 U	0.23 U	1.1 U	1.3 U
	2,4-Dichlorophenol	Null	ug/L	0.26 U	5.1 U	5.1 U	5.1 U	5.1 U	0.27 U	5.1 U	0.26 U	0.25 U	0.25 U	0.25 U	1.1 U	1.3 U
	2,4-Dimethylphenol	Null	ug/L	0.34 U	5.1 U	5.1 U	5.1 U	5.1 U	0.35 U	5.1 U	0.34 U	0.33 U	0.33 U	0.33 U	1.1 U	1.3 U
	2,4-Dinitrophenol	Null	ug/L	1 U	50.5 U	51 U	50.5 U	51 U	1.1 U	50.5 U	1.1 U	1 U	1 U	1 U	2.6 U	3.3 U
	2,4-Dinitrotoluene	Null	ug/L	0.25 U	5.1 U	5.1 U	5.1 U	5.1 U	0.26 U	5.1 U	0.25 U	0.24 U	0.24 U	0.24 U	1.1 U	1.3 U
	2,4,5-Trichlorophenol	Null	ug/L	0.41 U	5.1 U	5.1 U	5.1 U	5.1 U	0.43 U	5.1 U	0.42 U	0.41 U	0.41 U	0.41 U	2.6 U	3.3 U
	2,4,6-Trichlorophenol	Null	ug/L	0.26 U	5.1 U	5.1 U	5.1 U	5.1 U	0.27 U	5.1 U	0.26 U	0.25 U	0.25 U	0.25 U	1.1 U	1.3 U
	2,6-Dinitrotoluene	81	ug/L	0.27 U	5.1 U	5.1 U	5.1 U	5.1 U	0.28 U	5.1 U	0.27 U	0.26 U	0.26 U	0.26 U	1.1 U	1.3 U
	3,3'-Dichlorobenzidine	Null	ug/L	0.46 U	25.3 U	25.3 U	25.3 U	25.3 U	0.47 U	25.3 U	0.46 U	0.45 U	0.44 U	0.44 U	2.6 U	3.3 U
	384-Methylphenol(m,p-Cresol)	Null	ug/L	0.32 U	10.1 U	10.2 U	10.1 U	10.1 U	0.34 U	10.1 U	0.33 U	0.32 U	0.31 U	0.31 U	1.1 U	1.3 U
	4-Bromophenyl phenyl ether	Null	ug/L	0.73 U	10.1 U	10.2 U	10.1 U	10.1 U	0.76 U	10.1 U	0.75 U	0.72 U	0.71 U	0.71 U	2.1 U	2.6 U
	4-Chloro-3-methylphenol	Null	ug/L	0.24 U	10.1 U	10.2 U	10.1 U	10.1 U	0.25 U	10.1 U	0.25 U	0.24 U	0.23 U	0.23 U	1.1 U	1.3 U
	4-Chloroaniline	Null	ug/L	0.15 U	10.1 U	10.2 U	10.1 U	10.1 U	0.15 U	10.1 U	0.15 U	0.14 U	0.14 U	0.14 U	1.1 U	1.3 U
	4-Chlorophenyl phenyl ether	Null	ug/L	0.23 U	5.1 U	5.1 U	5.1 U	5.1 U	0.24 U	5.1 U	0.24 U	0.23 U	0.23 U	0.23 U	1.1 U	1.3 U
	4-Nitroaniline	Null	ug/L	0.45 U	25.3 U	25.3 U	25.3 U	25.3 U	0.47 U	25.3 U	0.46 U	0.44 U	0.44 U	0.44 U	2.6 U	3.3 U
	4-Nitrophenol	Null	ug/L	0.4 U	50.5 U	51 U	50.5 U	51 U	0.42 U	50.5 U	0.41 U	0.4 U	0.39 U	0.39 U	1.1 U	1.3 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	0.26 U	25.3 U	25.3 U	25.3 U	25.3 U	0.28 U	25.3 U	0.27 U	0.26 U	0.26 U	0.26 U	1.1 U	1.3 U
	Acenaphthene	Null	ug/L	0.27 U	5.1 U	5.1 U	5.1 U	5.1 U	0.28 U	5.1 U	0.28 U	0.27 U	0.27 U	0.27 U	1.1 U	1.3 U
	Acenaphthylene	4840	ug/L	0.21 U	5.1 U	5.1 U	5.1 U	5.1 U	0.22 U	5.1 U	0.21 U	0.2 U	0.2 U	0.2 U	1.1 U	1.3 U
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	0.21 U	5.1 U	5.1 U	5.1 U	5.1 U	0.22 U	5.1 U	0.22 U	0.21 U	0.2 U	0.2 U	1.1 U	1.3 U
	Benzene	Null	ug/L	15.7 U	50.5 U	51 U	50.5 U	51 U	16.3 U	50.5 U	16 U	15.5 U	15.2 U	15.2 U	26.3 U	33.1 U
	Benzyl alcohol	8.6	ug/L	0.23 U	10.1 U	10.2 U	10.1 U	10.1 U	0.24 U	5.1 U	0.24 U	0.23 U	0.23 U	0.23 U	1.1 U	1.3 U
	Bis(2-chlorovinyl)methane	Null	ug/L	0.23 U	5.1 U	5.1 U	5.1 U	5.1 U	0.24 U	5.1 U	0.24 U	0.23 U	0.23 U	0.23 U	1.1 U	1.3 U
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	0.3 U	5.1 U	5.1 U	5.1 U	5.1 U	0.31 U	5.1 U	0.31 U	0.3 U	0.29 U	0.29 U	1.1 U	1.3 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	1.7	2.5 U	5.4	2.5 U	2.5 U	1.5	2.5 U	0.46 U	0.45 U	0.44 U	0.44 U	1.4	
	Butyl benzyl phthalate	Null	ug/L	0.29 U	5.1 U	5.1 U	5.1 U	5.1 U	0.3 U	5.1 U	0.3 U	0.29 U	0.28 U	0.28 U	1.1 U	1.3 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	0.24 U	5.1 U	5.1 U	5.1 U	5.1 U	0.25 U	5.1 U	0.24 U	0.24 U	0.23 U	0.23 U	1.1 U	1.3 U
	Chrysene	Null	ug/L	0.24 U	5.1 U	5.1 U	5.1 U	5.1 U	0.25 U	5.1 U	0.24 U	0.24 U	0.23 U	0.23 U	1.1 U	1.3 U
	Di-n-butyl phthalate	Null	ug/L	0.4 U	5.1 U	5.1 U	5.1 U	5.1 U	0.41 U	5.1 U	0.41 U	0.39 U	0.38 U	0.38 U	1.1 U	1.3 U
	Di-n-octyl phthalate	Null	ug/L	0.29 U	5.1 U	5.1 U	5.1 U	5.1 U	0.3 U	5.1 U	0.3 U	0.29 U	0.28 U	0.28 U	1.1 U	1.3 U
	Dibenzofuran	Null	ug/L	0.47 U	5.1 U	5.1 U	5.1 U	5.1 U	0.49 U	5.1 U	0.48 U	0.46 U	0.45 U	0.45 U	1.1 U	1.3 U
	Dibenzofuran	Null	ug/L	0.26 U	5.1 U	5.1 U	5.1 U	5.1 U	0.27 U	5.1 U	0.26 U	0.25 U	0.25 U	0.25 U	1.1 U	1.3 U
	Diethyl phthalate	Null	ug/L	0.25 U	5.1 U	5.1 U	5.1 U	5.1 U	0.26 U	5.1 U	0.25 U	0.24 U	0.24 U	0.24 U	1.1 U	1.3 U
	Dimethyl phthalate	Null	ug/L	0.29 U	5.1 U	5.1 U	5.1 U	5.1 U	0.3 U	5.1 U	0.3 U	0.29 U	0.28 U	0.28 U	1.1 U	1.3 U
	Fluoranthene	1.9	ug/L	0.23 U	5.1 U	5.1 U	5.1 U	5.1 U	0.23 U	5.1 U	0.22 U	0.22 U	0.22 U	0.22 U	1.1 U	1.3 U
	Fluorene	Null	ug/L	0.21 U	5.1 U	5.1 U	5.1 U	5.1 U	0.22 U	5.1 U	0.22 U	0.21 U	0.21 U	0.21 U	1.1 U	1.3 U
	Hexachloro-1,3-butadiene	Null	ug/L	0.34 U	2.5 U	2.6 U	2.5 U	2.5 U	0.35 U	2.5 U	0.35 U	0.33 U	0.33 U	0.33 U	1.1 U	1.3 U
	Hexachlorobenzene	Null	ug/L	0.27 U	5.1 U	5.1 U	5.1 U	5.1 U	0.28 U	5.1 U	0.27 U	0.26 U	0.26 U	0.26 U	1.1 U	1.3 U
	Hexachlorocyclopentadiene	Null	ug/L	0.48 U	20.2 U	20.4 U	20.2 U	20.2 U	0.49 U	20.2 U	0.49 U	0.47 U	0.46 U	0.46 U	1.1 U	1.3 U
	Hexachloroethane	Null	ug/L	0.32 U	5.1 U	5.1 U	5.1 U	5.1 U	0.33 U	5.1 U	0.33 U	0.32 U	0.31 U	0.31 U	1.1 U	1.3 U
	Indeno[1,2,3-j]pyrene	4.31	ug/L	0.5 U	5.1 U	5.1 U	5.1 U	5.1 U	0.52 U	5.1 U	0.51 U	0.49 U	0.48 U	0.48 U	1.1 U	1.3 U
	Indeno[1,2,3-j]pyrene	Null	ug/L	0.21 U	5.1 U	5.1 U	5.1 U	5.1 U	0.22 U	5.1 U	0.22 U	0.21 U	0.21 U	0.21 U	1.1 U	1.3 U
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	0.3 U	10.1 U	10.2 U	10.1 U	10.1 U	0.31 U	10.1 U	0.3 U	0.29 U	0.29 U	0.29 U	1.1 U	1.3 U
	N-Nitrosodiphenylamine	Null	ug/L	0.48 U	5.1 U	5.1 U	5.1 U	5.1 U	0.5 U	5.1 U	0.49 U	0.47 U	0.46 U	0.46 U	1.1 U	1.3 U
	Naphthalene	13	ug/L	0.24 U	2.5 U	2.6 U	2.5 U	2.5 U	0.25 U	2.5 U	0.25 U	0.24 U	0.23 U	0.23 U	1.1 U	1.3 U
	Nitrobenzene	Null	ug/L	0.49 U	5.1 U	5.1 U	5.1 U	5.1 U	0.51 U	5.1 U	0.5 U	0.48 U	0.47 U	0.47 U	1.1 U	1.3 U
	Pentachlorophenol	Null	ug/L	0.29 U	25.3 U	25.5 U	25.3 U	25.3 U	0.31 U	25.3 U	0.3 U	0.29 U	0.28 U	0.28 U		

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW08																
Method	Analyte	Screening Value	Units	July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	2.5 U	2.5 U	2.5 U									
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	2.5 U	2.5 U	2.5 U									
	Trichloroethene	Null	ug/L	0.15 U	1 U	1 U	1 U									
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A										
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U	1 U	1 U	1 U									
	Xylenes (Total)	27	ug/L	0.31 U	5 U	5 U	5 U									
	1-Methylphthalene	2.1	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.24 U	0.25 U	0.24 U	5.1 U	5.3 U	5 U
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A										
	1,2-Dichlorobenzene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.26 U	0.27 U	0.26 U	5.1 U	5.3 U	5 U
	1,2,4-Trichlorobenzene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.31 U	0.29 U	0.3 U	0.29 U	5.1 U	5.3 U	5 U
	1,3-Dichlorobenzene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.3 U	0.28 U	0.29 U	0.28 U	5.1 U	5.3 U	5 U
	1,4-Dichlorobenzene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.31 U	0.3 U	0.29 U	0.29 U	5.1 U	5.3 U	5 U
	2-Chlorophenol	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.25 U	0.26 U	0.24 U	5.1 U	5.3 U	5 U
	2-Methylnaphthalene	330	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.28 U	0.29 U	0.28 U	5.1 U	5.3 U	5 U
	2-Methylphenol (Cresol)	67	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.33 U	0.34 U	0.33 U	5.1 U	5.3 U	5 U
	2-Nitroaniline	Null	ug/L	2.0 U	0.31 U	0.29 U	0.29 U	0.29 U	28.3 U	25 U						
	2-Nitrophenol	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.27 U	0.28 U	0.27 U	5.1 U	5.3 U	5 U
	2,2-oxibis[1-chloropropane]	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.23 U	0.24 U	0.23 U	3.4 U	3.6 U	3.4 U
	2,4-Dichlorophenol	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.25 U	0.26 U	0.25 U	5.1 U	5.3 U	5 U
	2,4-Dimethylphenol	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.33 U	0.34 U	0.33 U	5.1 U	5.3 U	5 U
	2,4-Dinitrophenol	Null	ug/L	2.9 U	2.6 U	1.1 U	1 U	1 U	1 U	50.5 U	52.6 U	50 U				
	2,4-Dinitrotoluene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.24 U	0.25 U	0.24 U	5.1 U	5.3 U	5 U
	2,4,5-Trichlorophenol	Null	ug/L	2.9 U	2.6 U	0.43 U	0.41 U	0.42 U	0.4 U	5.1 U	5.3 U	5 U				
	2,4,6-Trichlorophenol	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.26 U	0.27 U	0.26 U	5.1 U	5.3 U	5 U
	2,6-Dinitrotoluene	81	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.45 U	0.45 U	0.45 U	0.45 U	25.3 U	26.3 U	25 U
	3-Chlorobiphenyl	Null	ug/L	2.9 U	2.6 U	0.32 U	0.32 U	0.32 U	0.32 U	10.5 U	10.5 U					
	3,3'-Dichlorobenzidine	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	5.1 U	5.3 U	5 U
	3,4-Methylphenol(m,p-Cresol)	Null	ug/L	2.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2 U	0.77 U	0.72 U	0.75 U	0.71 U	10.1 U	10 U	
	4-Bromophenyl phenyl ether	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.27 U	0.28 U	0.27 U	5.1 U	5.3 U	5 U
	4-Chloro-3-methylphenol	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.24 U	0.25 U	0.24 U	10.1 U	10.5 U	10 U
	4-Chloroaniline	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.15 U	0.14 U	0.15 U	0.14 U	10.1 U	10.5 U	10 U
	4-Chlorophenyl phenyl ether	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.23 U	0.24 U	0.23 U	5.1 U	5.3 U	5 U
	4-Nitroaniline	Null	ug/L	2.9 U	2.6 U	0.47 U	0.44 U	0.46 U	0.44 U	25.3 U	26.3 U	25 U				
	4-Nitrophenol	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.41 U	0.41 U	0.4 U	50.5 U	52.6 U	50 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	2.9 U	2.6 U	0.28 U	0.27 U	0.28 U	0.27 U	25.3 U	26.3 U	25 U				
	Acenaphthene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.22 U	0.21 U	0.21 U	0.21 U	5.1 U	5.3 U	5 U
	Acenaphthylene	4840	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.1 N/A	0.1 N/A	0.1 N/A	0.1 N/A	5.1 U	5.3 U	5 U
	Acenaphthylene	Null	ug/L	N/A	1 U	1 U										
	Anthracene	0.035	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.22 U	0.21 U	0.22 U	0.21 U	5.1 U	5.3 U	5 U
	Atrazine	Null	ug/L	N/A	N/A	N/A										
	Azobenzene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.25 U	0.28 U	0.25 U	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A										
	Benzol(b)fluoranthene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.2 U	0.19 U	0.19 U	5.1 U	5.3 U	5 U
	Benzol(h,p)perylene	7.64	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.43 U	0.4 U	0.42 U	0.4 U	5.1 U	5.3 U	5 U
	Benzol(k)fluoranthene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.26 U	0.27 U	0.26 U	5.1 U	5.3 U	5 U
	Benzol[a]anthracene	0.025	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.24 U	0.25 U	0.24 U	5.1 U	5.3 U	5 U
	Benzol[a]pyrene	0.014	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.26 U	0.27 U	0.26 U	5.1 U	5.3 U	5 U
	Benzol[b]fluoranthene	Null	ug/L	25.6 U	26 U	25.9 U	28.7 U	25.1 U	16.4 U	15.5 U	16 U	15.3 U	50.5 U	52.6 U	50 U	
	Benzol[b]phenanthrene	8.6	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.23 U	0.24 U	0.23 U	10.1 U	10.5 U	10 U
	Bis(2-chloroethyl)methane	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.23 U	0.24 U	0.23 U	5.1 U	5.3 U	5 U
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A										
	Bis(2-chloroethyl)ether	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.3 U	0.31 U	0.29 U	5.1 U	5.3 U	5 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	3.9	1 U	1 U	2.7	1 U	1 U	1.9	0.45 U	0.46 U	0.44 U	2.5 U	2.6 U	5.6
	Butyl benzyl phthalate	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.3 U	0.29 U	0.3 U	0.28 U	5.1 U	5.3 U	5 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A										
	Carbazole	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.24 U	0.24 U	0.23 U	5.1 U	5.3 U	5 U
	Chrysene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.24 U	0.24 U	0.23 U	5.1 U	5.3 U	5 U
	Di-n-butyl phthalate	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.39 U	0.41 U	0.39 U	5.1 U	5.3 U	5 U
	Di-n-octyl phthalate	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.3 U	0.29 U	0.3 U	0.29 U	5.1 U	5.3 U	5 U
	Dibenzofuran	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.49 U	0.46 U	0.48 U	0.46 U	5.1 U	5.3 U	5 U
	Dibenzofuran	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.26 U	0.27 U	0.26 U	5.1 U	5.3 U	5 U
	Diethyl phthalate	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.24 U	0.25 U	0.24 U	5.1 U	5.3 U	5 U
	Dimethyl phthalate	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.31 U	0.29 U	0.3 U	0.29 U	5.1 U	5.3 U	5 U
	Fluoranthene	1.9	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.22 U	0.23 U	0.22 U	5.1 U	5.3 U	5 U
	Fluorene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.22 U	0.21 U	0.22 U	0.21 U	5.1 U	5.3 U	5 U
	Hexachloro-1,3-butadiene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.33 U	0.35 U	0.33 U	2.5 U	2.6 U	2.5 U
	Hexachlorobenzene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.26 U	0.27 U	0.26 U	5.1 U	5.3 U	5 U
	Hexachlorocyclopentadiene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.47 U	0.49 U	0.47 U	20.2 U	21.1 U	20 U
	Hexachloroethane	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.32 U	0.33 U	0.31 U	5.1 U	5.3 U	5 U
	Indeno[1,2,3-ij]perylene	4.31	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.52 U	0.49 U	0.51 U	0.49 U	5.1 U	5.3 U	5 U
	Methylphenol, 3 & 4	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.22 U	0.21 U	0.22 U	0.21 U	5.1 U	5.3 U	5 U
	N-Nitrosodimethylamine	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.31 U	0.29 U	0.3 U	0.29 U	10.1 U	10.5 U	10 U
	N-Nitrosodiphenylamine	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.47 U	0.49 U	0.47 U	5.1 U	5.3 U	5 U
	Naphthalene	13	ug/L	1.1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.24 U	0.25 U	0.24 U	2.5 U	2.6 U	2.5 U
	Nitrobenzene	Null	ug/L	1.1 U	1 U	1 U	1 U	1 U								

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SWO																											
Method	Analyte	Screening Value	Units	July 13, 2014	Field Sample	July 14, 2014	Field Sample	July 15, 2014	Field Sample	July 16, 2014	Field Sample	July 17, 2014	Field Sample	July 18, 2014	Field Sample	July 21, 2014	Field Sample	July 24, 2014	Field Sample	July 27, 2014	Field Sample	July 30, 2014	Field Sample	August 2, 2014	Field Sample	August 5, 2014	Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	2.5 U	0.18 U	2.5 U	0.18 U	2.5 U	0.18 U	2.3 UJ	0.23 U	2.3 U	N/A	N/A	N/A	N/A											
	trans-1,3-Dichloropropene	Null	ug/L	2.5 U	0.23 U	2.5 U	0.23 U	2.5 U	0.23 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A											
	Trichloroethylene	Null	ug/L	1 U	0.15 U	1 U	0.15 U	1 U	0.15 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A											
	Trichloroformate	Null	ug/L	N/A	N/A	N/A	N/A	N/A																			
	Vinyl chloride	Null	ug/L	1 U	0.13 U	1 U	0.13 U	1 U	0.13 U	0.13 U	0.13 U	0.13 U	N/A	N/A	N/A	N/A											
	Xylene (Total)	27	ug/L	5 U	0.31 U	5 U	0.31 U	5 U	0.31 U	0.31 U	0.31 U	0.31 U	N/A	N/A	N/A	N/A											
	1-Methylnaphthalene	2.1	ug/L	5.1 U	0.24 U	5.3 U	0.25 U	5.1 U	0.24 U	0.25 U	0.25 U	0.25 U	N/A	N/A	N/A	N/A											
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A																			
	1,2-Dichlorobenzene	Null	ug/L	5.1 U	0.26 U	5.3 U	0.26 U	5.1 U	0.26 U	0.25 U	0.25 U	0.25 U	N/A	N/A	N/A	N/A											
	1,2,4-Trichlorobenzene	Null	ug/L	5.1 U	0.29 U	5.3 U	0.3 U	0.29 U	0.29 U	0.3 U	0.3 U	0.3 U	N/A	N/A	N/A	N/A											
	1,3-Dichlorobenzene	Null	ug/L	5.1 U	0.28 U	5.3 U	0.28 U	5.1 U	0.28 U	0.27 U	0.27 U	0.27 U	N/A	N/A	N/A	N/A											
	1,4-Dichlorobenzene	Null	ug/L	5.1 U	0.29 U	5.3 U	0.3 U	0.29 U	0.29 U	0.3 U	0.3 U	0.3 U	N/A	N/A	N/A	N/A											
	2-Chloronaphthalene	Null	ug/L	5.1 U	0.24 U	5.3 U	0.25 U	5.1 U	0.24 U	0.24 U	0.24 U	0.25 U	N/A	N/A	N/A	N/A											
	2-Chlorophenol	Null	ug/L	5.1 U	0.21 U	5.3 U	0.22 U	5.1 U	0.21 U	0.22 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A											
	2-Methylbenzaldehyde	330	ug/L	5.1 U	0.28 U	5.3 U	0.28 U	5.1 U	0.28 U	0.27 U	0.27 U	0.27 U	N/A	N/A	N/A	N/A											
	2-Methylphenol(4-Oresol)	67	ug/L	5.1 U	0.27 U	5.3 U	0.28 U	5.1 U	0.27 U	0.27 U	0.28 U	0.28 U	N/A	N/A	N/A	N/A											
	2-Nitroaniline	Null	ug/L	25.5 U	0.29 U	26.6 U	0.3 U	25.5 U	0.28 U	0.27 U	0.27 U	0.27 U	N/A	N/A	N/A	N/A											
	2-Nitrophenol	Null	ug/L	5.1 U	0.27 U	5.3 U	0.28 U	5.1 U	0.27 U	0.27 U	0.27 U	0.27 U	N/A	N/A	N/A	N/A											
	2,2'-oxybis[1-chloropropane]	Null	ug/L	3.5 U	0.23 U	3.6 U	0.24 U	3.5 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A											
	2,4-Dichlorophenol	Null	ug/L	5.1 U	0.25 U	5.3 U	0.26 U	5.1 U	0.25 U	0.25 U	0.25 U	0.25 U	N/A	N/A	N/A	N/A											
	2,4-Dimethylphenol	Null	ug/L	5.1 U	0.33 U	5.3 U	0.34 U	5.1 U	0.33 U	0.34 U	0.34 U	0.34 U	N/A	N/A	N/A	N/A											
	2,4-Dinitrophenol	Null	ug/L	51 U	1 U	53.2 U	1 U	51 U	1 U	51 U	1 U	51 U	N/A	N/A	N/A	N/A											
	2,4-Dinitrotoluene	Null	ug/L	5.1 U	0.24 U	5.3 U	0.25 U	5.1 U	0.24 U	0.24 U	0.24 U	0.25 U	N/A	N/A	N/A	N/A											
	2,4,5-Trichlorophenol	Null	ug/L	5.1 U	0.4 U	5.3 U	0.41 U	5.1 U	0.4 U	0.4 U	0.41 U	0.41 U	N/A	N/A	N/A	N/A											
	2,4,6-Trichlorophenol	Null	ug/L	5.1 U	0.25 U	5.3 U	0.26 U	5.1 U	0.25 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A											
	2,6-Dinitrotoluene	81	ug/L	5.1 U	0.26 U	5.3 U	0.27 U	5.1 U	0.26 U	0.27 U	0.27 U	0.27 U	N/A	N/A	N/A	N/A											
	3-Aminobiphenol	Null	ug/L	25.5 U	0.45 U	26.6 U	0.46 U	25.5 U	0.45 U	0.45 U	0.46 U	0.46 U	N/A	N/A	N/A	N/A											
	3,3'-Dichlorobiphenol	Null	ug/L	10.2 U	0.33 U	10.6 U	0.32 U	10.2 U	0.31 U	0.31 U	0.32 U	0.32 U	N/A	N/A	N/A	N/A											
	384-Methylphenol(m&p Cresol)	Null	ug/L	10.2 U	0.71 U	10.6 U	0.73 U	10.2 U	0.71 U	0.71 U	0.73 U	0.73 U	N/A	N/A	N/A	N/A											
	4-Bromophenyl phenyl ether	Null	ug/L	5.1 U	0.27 U	5.3 U	0.28 U	5.1 U	0.27 U	0.27 U	0.27 U	0.27 U	N/A	N/A	N/A	N/A											
	4-Chloro-3-methylphenol	Null	ug/L	10.2 U	0.24 U	10.6 U	0.24 U	10.2 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A											
	4-Chlorophenyl phenyl ether	Null	ug/L	5.1 U	0.23 U	5.3 U	0.23 U	5.1 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A											
	4-Nitroaniline	Null	ug/L	25.5 U	0.44 U	26.6 U	0.45 U	25.5 U	0.44 U	0.44 U	0.45 U	0.45 U	N/A	N/A	N/A	N/A											
	4-Nitrophenol	Null	ug/L	51 U	0.39 U	53.2 U	0.4 U	51 U	0.39 U	0.39 U	0.4 U	0.4 U	N/A	N/A	N/A	N/A											
	4,6-Dinitro-2-methylphenol	Null	ug/L	25.5 U	0.26 U	26.6 U	0.26 U	25.5 U	0.26 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A											
	Acenaphthene	Null	ug/L	5.1 U	0.27 U	5.3 U	0.27 U	5.1 U	0.27 U	0.27 U	0.27 U	0.27 U	N/A	N/A	N/A	N/A											
	Acenaphthylene	4840	ug/L	5.1 U	0.21 U	5.3 U	0.21 U	5.1 U	0.21 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A											
	Benzol(b)fluoranthene	Null	ug/L	5.1 U	0.26 U	5.3 U	0.27 U	5.1 U	0.26 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A											
	Benzol(g,h)perylene	7.64	ug/L	5.1 U	0.71 U	5.3 U	0.72 U	5.1 U	0.71 U	0.71 U	0.72 U	0.72 U	N/A	N/A	N/A	N/A											
	Benzol(k)fluoranthene	Null	ug/L	5.1 U	0.23 U	5.3 U	0.24 U	5.1 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A											
	Benzol[a]anthracene	0.025	ug/L	5.1 U	0.21 U	5.3 U	0.22 U	5.1 U	0.21 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A											
	Benzol[a]anthracene	0.014	ug/L	5.1 U	0.21 U	5.3 U	0.22 U	5.1 U	0.21 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A											
EPA 8270	Atrazine	0.035	ug/L	5.1 U	0.21 U	5.3 U	0.21 U	5.1 U	0.21 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A											
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A																			
	Benzol(b)fluoranthene	Null	ug/L	5.1 U	0.26 U	5.3 U	0.27 U	5.1 U	0.26 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A											
	Benzol(g,h)perylene	7.64	ug/L	5.1 U	0.26 U	5.3 U	0.27 U	5.1 U	0.26 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A											
	Benzol(k)fluoranthene	Null	ug/L	5.1 U	0.26 U	5.3 U	0.27 U	5.1 U	0.26 U	0.26 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A											
	Benzol[a]anthracene	0.025	ug/L	5.1 U	0.21 U	5.3 U	0.22 U	5.1 U	0.21 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A											
	Benzol[a]anthracene	0.014	ug/L	5.1 U	0.21 U	5.3 U	0.22 U	5.1 U	0.21 U	0.21 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A											
	Cyanide	5.2	ug/L	5 U	N/A	N/A	N/A	N/A																			
	TTPC	350	ug/L	0.85 UJ	1.7 U	0.85 U	N/A	1.7 U	0.85 U	N/A	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U		
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A																			
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A																			
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A																			
	Nitrobenzene	-13	ug/L	2.6 U	0.24 U	2.7 U	0.24 U	2.6 U	0.24 U	0.23 U	0.24 U	0.24 U	N/A	N/A	N/A	N/A											
	Pentachlorophenol	Null	ug/L	25.5 U	0.29 U	26.6 U	0.29																				

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW08											
				August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample	August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	September 4, 2014 Field Duplicate	
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[e]anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-ij]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Methylnaphthalene, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	Nitrosodimethylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	TTPC	0.85 U	ug/L	0.85 U	ug/L	0.85 U	ug/L	0.924 U	ug/L	0.85 U	ug/L	0.85 UJ	ug/L	0.85 U	ug/L
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW08												
				September 7, 2014	September 10, 2014	September 13, 2014	September 16, 2014	September 19, 2014	September 22, 2014	September 25, 2014	September 28, 2014	October 1, 2014	October 4, 2014	October 7, 2014		
				Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Vinyl chloride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylene (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylnaphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2'-Azobis	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(<i>o</i> -Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2'-oxybis(1-chloropropane)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,5-Trinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,6-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3&4-Methylphenol(<i>m</i> & <i>p</i> Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acetophenone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aacetone	0.036	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(g,h)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(k)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene acid	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chlorovinyl) ether	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,m)acene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Diphenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3- <i>c,d</i>]pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Isophorone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPPC	Null	ug/L	0.85 U	0.85 U	1.77 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U					
	2-Methylnaphthalene	350	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.036	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(g,h)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(k)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	350	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.036	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(g,h)perylene	7.6														

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits
N/A - Sample rejected if the sample is off TIC, the

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color

Detection

 Exeeda

No Detection

Page 1 of 1

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW08														
Method	Analyte	Screening Value	Units	October 10, 2014	October 13, 2014	October 17, 2014	October 20, 2014	October 23, 2014	October 26, 2014	October 29, 2014	November 1, 2014	November 4, 2014	November 7, 2014	November 10, 2014
				Field Sample	Field Sample	Field Sample	Field Duplicate	Field Sample						
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A										
	trans-1,3-Dichloropropene	Null	ug/L	N/A										
	Trichloroethene	Null	ug/L	N/A										
	Trichlorofluoromethane	Null	ug/L	N/A										
	1,1,1-Trichloroethane	Null	ug/L	N/A										
	Xylenes (Total)	27	ug/L	N/A										
	1-Methylphthalene	2.1	ug/L	N/A										
	1,1'-Biphenyl	Null	ug/L	N/A										
	1,2-Dichlorobenzene	Null	ug/L	N/A										
	1,2,4-Trichlorobenzene	Null	ug/L	N/A										
	1,3-Dichlorobenzene	Null	ug/L	N/A										
	1,4-Dichlorobenzene	Null	ug/L	N/A										
	2-Chloronaphthalene	Null	ug/L	N/A										
	2-Chlorophenol	Null	ug/L	N/A										
	2-Methylnaphthalene	330	ug/L	N/A										
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A										
	2-Nitroaniline	Null	ug/L	N/A										
	2-Nitrophenol	Null	ug/L	N/A										
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A										
	2,4-Dichlorophenol	Null	ug/L	N/A										
	2,4-Dimethylphenol	Null	ug/L	N/A										
	2,4-Dinitrophenol	Null	ug/L	N/A										
	2,4-Dinitrotoluene	81	ug/L	N/A										
	3,3'-Dichlorobenzidine	Null	ug/L	N/A										
	3,4-Methylphenol(m,p-Cresol)	Null	ug/L	N/A										
	4-Bromophenyl phenyl ether	Null	ug/L	N/A										
	4-Chloro-3-methylphenol	Null	ug/L	N/A										
	4-Chloroaniline	Null	ug/L	N/A										
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A										
	4-Nitroaniline	Null	ug/L	N/A										
	4-Nitrophenol	Null	ug/L	N/A										
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A										
	Acenaphthene	Null	ug/L	N/A										
	Acenaphthylene	4840	ug/L	N/A										
	Acenaphthylene	Null	ug/L	N/A										
	Anthracene	0.035	ug/L	N/A										
	Atrazine	Null	ug/L	N/A										
	Azobenzene	Null	ug/L	N/A										
	Benzaldehyde	Null	ug/L	N/A										
	Benzofluoranthene	Null	ug/L	N/A										
	Benzog(h,j)perylene	7.64	ug/L	N/A										
	Benzog(j,l)perylene	Null	ug/L	N/A										
	Benzog(j,l)anthracene	0.025	ug/L	N/A										
	Benzog(j,l)pyrene	0.014	ug/L	N/A										
	Benzyl alcohol	Null	ug/L	N/A										
	Benzyl alcohol	8.6	ug/L	N/A										
	Bis(2-chloroethyl) methane	Null	ug/L	N/A										
	Bis(2-chloroethyl) ether	Null	ug/L	N/A										
	Bis(2-chloroethyl)ether	Null	ug/L	N/A										
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A										
	Butyl benzyl phthalate	Null	ug/L	N/A										
	Caprolactam	Null	ug/L	N/A										
	Carbazole	Null	ug/L	N/A										
	Chrysene	Null	ug/L	N/A										
	Di-n-butyl phthalate	Null	ug/L	N/A										
	Di-n-octyl phthalate	Null	ug/L	N/A										
	Dibenzofuran	Null	ug/L	N/A										
	Diethyl phthalate	Null	ug/L	N/A										
	Dimethyl phthalate	Null	ug/L	N/A										
	Fluoranthene	1.9	ug/L	N/A										
	Fluorene	Null	ug/L	N/A										
	Hexachloro-1,3-butadiene	Null	ug/L	N/A										
	Hexachlorobenzene	Null	ug/L	N/A										
	Hexachlorocyclopentadiene	Null	ug/L	N/A										
	Hexachloroethane	Null	ug/L	N/A										
	Indeno[1,2,3-j]pyrene	4.31	ug/L	N/A										
	Methylphenol, 3 & 4	Null	ug/L	N/A										
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A										
	N-Nitrosodiphenylamine	Null	ug/L	N/A										
	Naphthalene	13	ug/L	N/A										
	Nitrobenzene	Null	ug/L	N/A										
	Pentachlorophenol	Null	ug/L	N/A										
	Phenanthrene	3.6	ug/L	N/A										
	Phenol	180	ug/L	N/A										
	Pyrene	0.3	ug/L	N/A										
EPA 9012	Cyanide	5.2	ug/L	N/A										
GCAL SOP HPLC	TTPC	Null	ug/L	0.324 U	1.7 U	0.85 U	0.85 U	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	
	2-Methylnaphthalene	330	ug/L	N/A										
	Acenaphthene	Null	ug/L	N/A										
	Acenaphthylene	4840	ug/L	N/A										
	Anthracene	0.035	ug/L	N/A										
	Benzog(fluoranthene)	Null	ug/L	N/A										
	Benzog(h,j)perylene	7.64	ug/L	N/A										
	Benzog(j,l)perylene	Null	ug/L	N/A										
	Benzog(j,l)anthracene	0.025	ug/L	N/A										
MA-EPH	Benzog(j,l)pyrene	0.014	ug/L	N/A										

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW09																						
				June 29, 2014		June 30, 2014		July 1, 2014		July 2, 2014		July 3, 2014		July 4, 2014		July 5, 2014		July 6, 2014		July 9, 2014		July 10, 2014		July 11, 2014		
				Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	2.5 U	2.5 U	2.5 U		
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U		
	Trichloroethene	Null	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1 U	1 U	1 U		
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloroform	Null	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1 U	1 U	1 U	
	Xylenes (Total)	27	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	5 U	5 U	5 U	
	1-Methylphthalene	2.1	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	1,2,4-Trichlorobenzene	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	1,3-Dichlorobenzene	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	1,4-Dichlorobenzene	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2-Chlorophenol	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2-Methylnaphthalene	330	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2-Methylphenol (Cresol)	67	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2-Nitroaniline	Null	ug/L	2.0 U	2.0 U	3 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	25 U	25 U	
	2-Nitrophenol	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2,2-oxibis[1-chloropropane]	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.5 U	3.4 U	
	2,4-Dichlorophenol	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2,4-Dimethylphenol	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2,4-Dinitrophenol	Null	ug/L	2.6 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	50 U	50 U	
	2,4-Dinitrotoluene	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2,4,5-Trichlorophenol	Null	ug/L	2.6 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	50 U	50 U	
	2,4,6-Trichlorophenol	81	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	2,6-Dinitrotoluene	Null	ug/L	2.6 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	25 U	25 U	
	3,3'-Dichlorobenzidine	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10.3 U	10 U	
	384-Methylphenol(m,p-Cresol)	Null	ug/L	2.1 U	2.1 U	2.4 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.2 U	5 U	
	4-Bromophenyl phenyl ether	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10.3 U	10 U	
	4-Chlorophenyl phenyl ether	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10.3 U	10 U	
	4-Chloroaniline	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10.3 U	10 U	
	4-Nitroaniline	Null	ug/L	2.6 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	25 U	25 U	
	4-Nitrophenol	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	51.5 U	50 U	
	4,6-Dinitro-2-methylphenol	Null	ug/L	2.6 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	50 U	50 U	
	Acenaphthene	4840	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Azobenzene	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[b]fluoranthene	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	Benzol[h,j]perylene	7.64	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[j]perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.2 U	5 U	
	Benzol[b]fluoranthene	Null	ug/L	25.3 U	26 U	30.5 U	26.2 U	26.3 U	25.3 U	25.3 U	25.3 U	51.5 U	50 U													
	Benzyl alcohol	8.6	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10.3 U	10 U
	Bis[2-chloroethyl]methane	Null	ug/L	1.1 U	1 U	1.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl)ether	Null	ug/L	1.1 U	1 U	1.2 U	1 U																			

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	July 3, 2014	July 4, 2014	July 5, 2014	July 6, 2014	Field Sample	Field Duplicate	July 10, 2014	Field Sample	July 11, 2014	Field Sample	July 12, 2014	Field Sample	July 13, 2014	Field Sample	July 14, 2014	Field Sample	July 15, 2014	Field Sample	July 16, 2014	Field Sample
				Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample						
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.18 U						
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 U						
	Trichloroethene	Null	ug/L	0.15 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.15 U						
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1-Chloroethane	Null	ug/L	0.13 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U						
	Xylenes (Total)	27	ug/L	0.31 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.31 U						
	1-Methylphthalene	2.1	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.1 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.24 U
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.25 U
	1,2,4-Trichlorobenzene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.29 U
	1,3-Dichlorobenzene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.27 U
	1,4-Dichlorobenzene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.29 U
	2-Chlorophenol	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.24 U
	2-Methylnaphthalene	330	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.28 U
	2-Methylphenol (Cresol)	67	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.27 U
	2-Nitroaniline	Null	ug/L	2.6 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25 U	25 U	25 U	0.29 U					
	2-Nitrophenol	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5 U	5 U	5 U	0.27 U
	2,2-oxibis[1-chloropropane]	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	3.2 U	3.2 U	3.5 U	3.5 U	3.5 U	0.23 U								
	2,4-Dichlorophenol	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
	2,4-Dimethylphenol	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.33 U	0.33 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.33 U
	2,4-Dinitrophenol	Null	ug/L	2.6 U	45.0 U	25 U	25.8 U	25 U	25 U	25 U	25 U	0.45 U											
	3,3'-Dichlorobenzidine	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U
	384-Methylphenol(m,p-Cresol)	Null	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	0.71 U	0.71 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U
	Bromophenyl phenyl ether	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	6.2 U	6 U	6.2 U	6 U	6.2 U	6 U	6.2 U	6 U	6.2 U	6 U	6.2 U	6 U
	4-Chloro-3-methylphenol	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.24 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U
	4-Chloroaniline	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.14 U	0.14 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U	10.3 U	10 U
	4-Chlorophenyl phenyl ether	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	4-Nitroaniline	Null	ug/L	2.6 U	0.44 U	0.44 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U					
	4-Nitrophenol	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	51.5 U	50 U	51.5 U	50 U	51.5 U	50 U	51.5 U	50 U	51.5 U	50 U	51.5 U	50 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	2.6 U	0.26 U	0.26 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U	25.8 U	25 U					
	Acenaphthene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Acenaphthylene	4840	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Antracene	0.035	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Aztrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Azobenzene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.25 U	N/A	N/A	N/A									
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol(b)fluoranthene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.19 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Benzol(h,j)perylene	7.64	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	0.4 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Benzol(k)fluoranthene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Benzol[a]anthracene	0.025	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Benzol[a]pyrene	0.014	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.25 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Benzol[b]fluoranthene	Null	ug/L	25.5 U	15.3 U	15.3 U	51.5 U	50 U	51.5 U	50 U	51.5 U	50 U	51.5 U	50 U	51.5 U	50 U	51.5 U	50 U					
	Benzol[b]pinacol	8.6	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Bis(2-chloroethyl) methane	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl)ether	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	0.44 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbazole	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Chrysene	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.2 U	5 U	5.2 U	5 U
	Di-n-butyl phthalate	Null	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	5.2 U	5 U	5.1 U	5.2 U	5 U	5.1 U	5.2 U	5 U</td				

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW10		SW11		SW12		SW14	
				July 17, 2014 Field Sample	July 18, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	trans-1,3-Dichloropropene	Null	ug/L	0.23 UJ	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	Trichloroethene	Null	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
	Xylenes (Total)	27	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
	1-Methylphthalene	2.1	ug/L	0.25 U	0.25 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1.1 U
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.27 U	0.26 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	1,2,4-Trichlorobenzene	Null	ug/L	0.3 U	0.3 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	1,3-Dichlorobenzene	Null	ug/L	0.29 U	0.28 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	1,4-Dichlorobenzene	Null	ug/L	0.31 U	0.3 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2-Chloronaphthalene	Null	ug/L	0.26 U	0.25 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2-Chlorophenol	Null	ug/L	0.22 U	0.22 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2-Methylnaphthalene	330	ug/L	0.29 U	0.28 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2-Methylphenol (m,p Cresol)	67	ug/L	0.26 U	0.26 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2-Nitroaniline	Null	ug/L	0.3 U	0.3 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U	2.7 U
	2-Nitrophenol	Null	ug/L	0.28 U	0.28 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2,2-oxibis[1-chloropropane]	Null	ug/L	0.24 U	0.24 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2,4-Dichlorophenol	Null	ug/L	0.26 U	0.26 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2,4-Dimethylphenol	Null	ug/L	0.34 U	0.34 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2,4-Dinitrophenol	Null	ug/L	1.1 U	1 U	2.6 U	2.7 U	3 U	2.6 U	2.6 U	2.7 U
	2,4-Dinitrotoluene	Null	ug/L	0.25 U	0.25 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2,4,5-Trichlorophenol	Null	ug/L	0.42 U	0.41 U	2.6 U	2.7 U	3 U	2.6 U	2.6 U	2.7 U
	2,4,6-Trichlorophenol	Null	ug/L	0.26 U	0.26 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	2,6-Dinitrotoluene	81	ug/L	0.27 U	0.27 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	3-Chlorobenzoic acid	Null	ug/L	0.47 U	0.46 U	2.6 U	2.7 U	3 U	2.6 U	2.6 U	2.7 U
	3,3'-Dichlorobenzidine	Null	ug/L	0.33 U	0.32 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	384-Methylphenol(m,p Cresol)	Null	ug/L	0.75 U	0.73 U	2.1 U	2.2 U	2.4 U	2.1 U	2.2 U	2.2 U
	4-Bromophenyl phenyl ether	Null	ug/L	0.28 U	0.28 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	4-Chloro-3-methylphenol	Null	ug/L	0.25 U	0.24 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	4-Chloroaniline	Null	ug/L	0.15 U	0.15 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	4-Chlorophenyl phenyl ether	Null	ug/L	0.24 U	0.23 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	4-Nitroaniline	Null	ug/L	0.46 U	0.45 UJ	2.6 U	2.7 U	3 U	2.6 U	2.6 U	2.7 U
	4-Nitrophenol	Null	ug/L	0.41 U	0.4 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	0.27 U	0.26 U	2.6 U	2.7 U	3 U	2.6 U	2.6 U	2.7 U
	Acenaphthene	Null	ug/L	0.28 U	0.27 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Acenaphthylenne	4840	ug/L	0.21 U	0.21 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	0.22 U	0.21 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	0.26 U	0.26 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	0.2 U	0.2 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Benzol[h,j]perylene	7.64	ug/L	0.42 U	0.41 UJ	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Benzol[k]fluoranthene	Null	ug/L	0.27 U	0.26 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Benzol[a]anthracene	0.025	ug/L	0.24 U	0.24 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Benzol[a]pyrene	0.014	ug/L	0.27 U	0.26 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Benzol[b]anthracene	Null	ug/L	16 U	15.7 U	26.2 U	27 U	30.1 U	25.9 U	27.9 U	25.9 U
	Benzyl alcohol	8.6	ug/L	0.24 U	0.23 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Bis[2-chloroethyl]methane	Null	ug/L	0.24 U	0.23 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	0.31 U	0.3 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	0.46 U	0.45 U	1 U	2.7	1.7	1 U	1.1 U	1.4
	Butyl benzyl phthalate	Null	ug/L	0.3 U	0.29 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	0.24 U	0.24 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Chrysene	Null	ug/L	0.24 U	0.24 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Di-n-butyl phthalate	Null	ug/L	0.41 U	0.4 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Di-n-octyl phthalate	Null	ug/L	0.3 U	0.29 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Dibenzofuran	Null	ug/L	0.46 U	0.47 UJ	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Dibenzofuran	Null	ug/L	0.26 U	0.26 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Diethyl phthalate	Null	ug/L	0.25 U	0.25 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Dimethyl phthalate	Null	ug/L	0.3 U	0.29 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Fluoranthene	1.9	ug/L	0.23 U	0.23 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Fluorene	Null	ug/L	0.22 U	0.21 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Hexachloro-1,3-butadiene	Null	ug/L	0.35 U	0.34 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Hexachlorobenzene	Null	ug/L	0.27 U	0.27 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Hexachlorocyclopentadiene	Null	ug/L	0.49 U	0.48 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Hexachloroethane	Null	ug/L	0.33 U	0.32 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Indeno[1,2,3-j]perylene	4.31	ug/L	0.51 U	0.5 UJ	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Methylphenol, 3 & 4	Null	ug/L	0.21 U	0.21 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	N-Nitrosodi-n-propylamine	Null	ug/L	0.22 U	0.22 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	N-Nitrosodimethylamine	Null	ug/L	0.3 U	0.3 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	N-Nitrosodiphenylamine	Null	ug/L	0.49 U	0.48 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Naphthalene	13	ug/L	0.25 U	0.24 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Nitrobenzene	Null	ug/L	0.5 U	0.49 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Pentachlorophenol	Null	ug/L	0.3 U	0.29 U	2.6 U	2.7 U	3 U	2.6 U	2.8 U	2.6 U
	Phenanthrene	3.6	ug/L	0.24 U	0.24 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Phenol	180	ug/L	0.28 U	0.27 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
	Pyrene	0.3	ug/L	0.29 U	0.29 U	1 U	1.1 U	1.2 U	1 U	1.1 U	1 U
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	1.7 U	0.85 U	N/A	N/A	N/A	0.904 UJ	0.85 UJ	0.85 UJ
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

SW15																									
Method	Analyte	Screening Value	Units	June 30, 2014		July 1, 2014		July 11, 2014		July 12, 2014		July 13, 2014		July 14, 2014		July 15, 2014		July 16, 2014		July 17, 2014		July 18, 2014			
				Field Sample	Field Sample	Field Sample	Field Duplicate	Field Sample	Field Sample																
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.18 U	0.18 U		
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	0.23 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.23 UJ	0.23 U		
	Trichloroethylene	Null	ug/L	0.15 U	0.15 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.15 U	0.15 U	
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Vinyl chloride	Null	ug/L	0.1 U	0.1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.13 U	0.13 U	
	Xylene (Total)	27	ug/L	0.31 U	0.31 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.31 U	0.31 U	
	1-Methylnaphthalene	2.1	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.26 U	0.26 U	
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichlorobenzene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.27 U	0.27 U	
	1,2,4-Trichlorobenzene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.34 U	0.34 U	
	1,3-Dichlorobenzene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.32 U	0.32 U	
	1,4-Dichlorobenzene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.31 U	0.31 U	
	2-Chloronaphthalene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.28 U	0.25 U	
	2-Chlorophenol	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.22 U	0.22 U	
	2-Methylnaphthalene	330	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.29 U	0.29 U	
	2-Methyl-nitro-Cresol	67	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.28 U	0.28 U	
	2-Nitrophenol	Null	ug/L	2.6 U	2.6 U	25.8 U	26.0 U	25.5 U	25.5 U	25.0 U	25.0 U	25.5 U	25.5 U	25.0 U	25.0 U	25.5 U	25.5 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	0.34 U	0.34 U	
	2-Nitrophenol	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.29 U	0.29 U	
	2,2'-oxybis[1-chloropropane]	Null	ug/L	1 U	1 U	1.1 U	1.1 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	0.24 U	0.24 U	
	2,4-Dichlorophenol	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.27 U	0.27 U	
	2,4-Dimethylphenol	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.34 U	0.34 U	
	2,4-Dinitrophenol	Null	ug/L	2.6 U	2.6 U	51.5 U	52.1 U	51 U	51 U	50 U	50 U	51.5 U	51.5 U	51 U	51 U	51.5 U	51.5 U	51 U	51 U	51 U	51 U	51 U	51 U	1.1 U	
	2,4-Dinitrophenol	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.1 U	
	3,3'-Dichlorobenzidine	Null	ug/L	1 U	1 U	10.3 U	10.4 U	10.2 U	10.2 U	10 U	10 U	10.3 U	10.3 U	10.2 U	10.2 U	10.3 U	10.3 U	10.2 U	10.2 U	10.2 U	10.2 U	10.2 U	0.34 U	0.33 U	
	3,4-Methylenedioxy-Cresol	Null	ug/L	2.1 U	2.1 U	10.3 U	10.4 U	10.2 U	10.2 U	10 U	10 U	10.3 U	10.3 U	10.2 U	10.2 U	10.3 U	10.3 U	10.2 U	10.2 U	10.2 U	10.2 U	10.2 U	0.30 U	0.30 U	
	4-Bromophenyl phenyl ether	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.29 U	0.29 U
	4-Chloro-3-methylphenol	Null	ug/L	1 U	1 U	10.3 U	10.4 U	10.2 U	10.2 U	10 U	10 U	10.3 U	10.3 U	10.2 U	10.2 U	10.3 U	10.3 U	10.2 U	10.2 U	10.2 U	10.2 U	10.2 U	0.28 U	0.28 U	
	4-Chlorophenyl phenyl ether	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.24 U	0.24 U
	4-Nitrophenol	Null	ug/L	2.6 U	2.6 U	25.8 U	26 U	25.5 U	25.5 U	25 U	25 U	25.5 U	25.5 U	25 U	25 U	25.5 U	25.5 U	25 U	25 U	25 U	25 U	25 U	0.47 U	0.47 U	
	4,6-Dinitro-2-methylphenol	Null	ug/L	2.6 U	2.6 U	25.8 U	26 U	25.5 U	25.5 U	25 U	25 U	25.5 U	25.5 U	25 U	25 U	25.5 U	25.5 U	25 U	25 U	25 U	25 U	25 U	0.41 UJ	0.41 U	
	Acenaphthene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.27 U	0.27 U
	Acenaphthylenne	4840	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.28 U	0.28 U
	Acetophenone	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anisole	0.015	ug/L	1 U	1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5.2 U	5.2 U	5.1 U	5.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5.2 U	5.2 U	5.1 U	0.21 U	0.21 U	
	Aromatic	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Azobine	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.27 U	0.26 U	
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol(b)fluoranthene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.21 U	0.21 U	
	Benzol(g,h)perylene	7.64	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.46 UJ	0.46 U	
	Benzol(k)fluoranthene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.33 U	0.33 U	
	Benzol(a)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol(a)pyrene	0.014	ug/L	1 U	1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5.2 U	5.2 U	5.1 U	5.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5.2 U	5.2 U	5.1 U	0.26 U	0.26 U	
	Benzol(c)phenol	Null	ug/L	25.8 U	26.5 U	51.5 U	52.1 U	51 U	51 U	50 U	50 U	51.5 U	51.5 U	51 U	51 U	51.5 U	51.5 U	51 U	51 U	51.5 U	51.5 U	51 U	16.3 U	17.9 U	
	Benzyl alcohol	8.6	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.26 U	0.24 U
	Bis(2-chlorothoxy)methane	Null	ug/L	1 U	1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5.2 U	5.2 U	5.1 U	5.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5.2 U	5.2 U	5.1 U	0.27 U	0.24 U	
	Bis(2-chloromethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloromethyl) ether	Null	ug/L	1 U	1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5.2 U	5.2 U	5.1 U	5.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5.2 U	5.2 U	5.1 U	0.31 U	0.31 U	
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	1 U	1 U	1.1 U	1.1 U	2.6 U	2.6 U	2.7 U	2.7 U	2.6 U	2.6 U	2.7 U	2.7 U	2.6 U	2.6 U	2.7 U	2.7 U	2.6 U	2.6 U	2.7 U	0.47 U	0.46 U	
	Butyl benzyl phthalate	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.33 U	0.33 U
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbazole	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.27 U	0.27 U	
	Chrysene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.27 U	0.27 U	
	Di-n-butyl phthalate	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.41 U	0.41 U	
	Di-n-octyl phthalate	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.46 U	0.46 U	
	Dibenzo(a,h)anthracene	Null	ug/L	1 U	1 U	1.1 U	1.1 U	5.2 U	5.2 U	5.1 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.42 U	0.42 U	
	Dibenzofuran	Null	ug/L	1 U	1 U</																				

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
■ Detection
■ Exceedance
■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
■ Detection
■ Exceedance
■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not present.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

Exceedance
No Detection

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

SW1-1

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW17											
				July 20, 2014 Field Sample	July 23, 2014 Field Sample	July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Chlorobenzoic acid	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[e]anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chlorovinyl)methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.876 U	0.85 U	0.859 U	0.85 U	0.859 U	0.85 U	0.859 U	0.867 U	0.867 U	0.895 U	0.85 U	0.859 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW17															
Method	Analyte	Screening Value	Units	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	September 30, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Aldrin	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(j,l)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(l)phenanthrene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno[1,2,3-j]pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GCAL SOP HPLC	TTPC	Null	ug/L	0.850 U	0.85 U	0.85 U	0.85 U	0.859 U	0.867 U	0.86 U	0.85 U	0.85 U	1.85 U	0.85 U	
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(j,l)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(j,l)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(j,l)phenanthrene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MA-EPH	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(j,l)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW17															
Method	Analyte	Screening Value	Units	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[e]pyrene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 U	0.924 U	0.924 U	1.7 U	0.85 U	0.924 U	1.85 U	0.924 U	0.85 U	0.924 U	0.85 U	0.924 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

Eisenbarth WEF 7A																									
Method	Analyte	Screening Value	Units	SW17		SW17D		SW17U		July 1, 2014		July 2, 2014		July 3, 2014		July 4, 2014		July 5, 2014		July 6, 2014		July 7, 2014		July 8, 2014	
				November 9, 2014	Field Sample	July 10, 2014	Field Sample	July 10, 2014	Field Sample	N/A	N/A	0.13 U	Field Sample	0.18 U	Field Sample										
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	2.5 U	N/A	2.5 U	N/A	0.18 U	N/A	0.18 U	N/A	0.18 U	N/A	0.18 U	N/A	0.18 U	N/A	0.18 U	N/A	0.18 U	N/A	0.18 U	N/A	0.18 U
	trans-1,3-Dichloropropene	Null	ug/L	N/A	2.5 U	N/A	2.5 U	N/A	0.23 U	N/A	0.23 U	N/A	0.23 U	N/A	0.23 U	N/A	0.23 U	N/A	0.23 U	N/A	0.23 U	N/A	0.23 U	N/A	0.23 U
	Trichloroethene	Null	ug/L	N/A	1 U	N/A	1 U	N/A	0.15 U	N/A	0.15 U	N/A	0.15 U	N/A	0.15 U	N/A	0.15 U	N/A	0.15 U	N/A	0.15 U	N/A	0.15 U	N/A	0.15 U
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Vinyl chloride	Null	ug/L	N/A	1 U	N/A	1 U	N/A	0.13 U	N/A	0.13 U	N/A	0.13 U	N/A	0.13 U	N/A	0.13 U	N/A	0.13 U	N/A	0.13 U	N/A	0.13 U	N/A	0.13 U
	Xylene (Total)	27	ug/L	N/A	5 U	N/A	5 U	N/A	0.31 U	N/A	0.31 U	N/A	0.31 U	N/A	0.31 U	N/A	0.31 U	N/A	0.31 U	N/A	0.31 U	N/A	0.31 U	N/A	0.31 U
	1-Methylnaphthalene	2.1	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
EPA 8270	1,3-Dichlorobenzene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	2-Chloronaphthalene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	2-Chlorophenol	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	2-Methylnaphthalene	330	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	2-Methoxyphenol (M-Cresol)	67	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	2-Nitroaniline	Null	ug/L	N/A	25.0 U	N/A	25.0 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U
	2-Nitrophenol	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	2,2'-oxybis[1-chloropropane]	Null	ug/L	N/A	3.5 U	N/A	3.4 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	2,4-Dichlorophenol	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	2,4-Dimethylphenol	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
EPA 8270	2,4-Dinitrophenol	Null	ug/L	N/A	5.1 U	N/A	5.05 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	10.2 U	N/A	10.1 U	N/A	2.1 U	N/A	2.0 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U
	3,4-Methylenediphenyl (M-Cresol)	Null	ug/L	N/A	10.2 U	N/A	10.1 U	N/A	2.1 U	N/A	2.0 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	4-Chloroaniline	Null	ug/L	N/A	10.2 U	N/A	10.1 U	N/A	2.1 U	N/A	2.0 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	4-Nitroaniline	Null	ug/L	N/A	25.0 U	N/A	25.0 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U
	4-Nitrophenol	Null	ug/L	N/A	10.2 U	N/A	10.1 U	N/A	2.1 U	N/A	2.0 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U	N/A	2.1 U
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	25.0 U	N/A	25.0 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U	N/A	2.6 U
	Aceanaphthalene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
EPA 9012	Acenaphthylene	0.035	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Acenaphthene	0.035	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Benz(a)anthracene	0.025	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Benzaldehyde	0.014	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Benzyl alcohol	8.6	ug/L	N/A	51 U	N/A	50.5 U	N/A	2.6 U	N/A	2.5 U	N/A	2.5 U	N/A	2.5 U	N/A	2.5 U	N/A	2.5 U	N/A	2.5 U	N/A	2.5 U	N/A	2.5 U
	Bis(2-chloroethoxy)methane	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	2.6 U	N/A	2.5 U	N/A	4.4	N/A	4.3 U	N/A	4.3 U	N/A	4.3 U	N/A	4.3 U	N/A	4.3 U	N/A	4.3 U	N/A	4.3 U	N/A	4.3 U
	Butyl benzyl phthalate	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
GCAL SOP HPLC	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Chrysene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Di-n-butyl phthalate	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Di-n-octyl phthalate	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Dibenzo(a,h)anthracene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Dibenzofuran	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Diethyl phthalate	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Dimethyl phthalate	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Fluoranthene	1.9	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
EPA 9012	Fluorene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	2.6 U	N/A	2.5 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Hexachlorobenzene	Null	ug/L	N/A	5.1 U	N/A	5.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U	N/A	1.1 U
	Hexachlorocyclopentadiene	Null	ug/L	N/A	20.4 U	N/A	20.2 U	N/A	1.1 U																

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
■ Detection
■ Exceedance
■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW18															
Method	Analyte	Screening Value	Units	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014 Field Sample	July 23, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	2.5 U	2.5 U	2.5 U	0.18 U	2.5 U	0.18 U	0.18 U	0.18 U	0.18 U	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	N/A	N/A
	Trichloroethene	Null	ug/L	0.15 U	1 U	1 U	1 U	0.15 U	1 U	0.15 U	0.15 U	0.15 U	0.15 U	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U	1 U	1 U	1 U	0.13 U	1 U	0.13 U	0.13 U	0.13 U	0.13 U	N/A	N/A
	Xylenes (Total)	27	ug/L	0.31 U	5 U	5 U	5 U	0.31 U	5 U	0.31 U	0.31 U	0.31 U	0.31 U	N/A	N/A
	1-Methylphenylbenzene	2.1	ug/L	0.26 ug/L	5.1 U	6.2 U	5.1 U	5.1 U	0.26 ug/L	5.2 U	0.5 U	0.28 U	0.26 U	N/A	N/A
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	0.27 U	5.1 U	6.2 U	5.1 U	5.1 U	0.28 U	5.2 U	0.53 U	0.29 U	0.27 U	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	0.31 U	5.1 U	6.2 U	5.1 U	0.32 U	5.2 U	0.59 U	0.33 U	0.31 U	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.29 U	5.1 U	6.2 U	5.1 U	0.3 U	5.2 U	0.57 U	0.31 U	0.3 U	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	0.31 U	5.1 U	6.2 U	5.1 U	0.32 U	5.2 U	0.6 U	0.33 U	0.31 U	N/A	N/A	N/A
	2-Chlorophenanthrene	Null	ug/L	0.26 U	5.1 U	6.2 U	5.1 U	0.27 U	5.2 U	0.5 U	0.28 U	0.26 U	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	0.22 U	5.1 U	6.2 U	5.1 U	0.23 U	5.2 U	0.43 U	0.24 U	0.23 U	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	0.29 U	5.1 U	6.2 U	5.1 U	0.3 U	5.2 U	0.57 U	0.32 U	0.3 U	N/A	N/A	N/A
	2-Methyltoluene (Cresol)	67	ug/L	0.29 U	5.1 U	6.2 U	5.1 U	0.3 U	5.2 U	0.59 U	0.31 U	0.29 U	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	0.31 U	26.5 U	30.9 U	25.0 U	0.32 U	25.3 U	0.32 U	0.33 U	0.31 U	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	0.29 U	5.1 U	6.2 U	5.1 U	0.3 U	5.2 U	0.55 U	0.31 U	0.29 U	N/A	N/A	N/A
	2,2-oxobis[1-chloropropane]	Null	ug/L	0.24 U	3.5 U	4.2 U	3.5 U	0.25 U	3.5 U	0.47 U	0.26 U	0.25 U	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	0.27 U	5.1 U	6.2 U	5.1 U	0.28 U	5.2 U	0.52 U	0.29 U	0.27 U	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	0.35 U	5.1 U	6.2 U	5.1 U	0.36 U	5.2 U	0.67 U	0.37 U	0.35 U	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	1.1 U	51 U	61.7 U	51 U	50.5 U	1.1 U	51.5 U	2.1 U	1.2 U	1.1 U	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	0.26 U	5.1 U	6.2 U	5.1 U	0.26 U	5.2 U	0.49 U	0.27 U	0.26 U	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	0.43 U	5.1 U	6.2 U	5.1 U	0.44 U	5.2 U	0.83 U	0.46 U	0.43 U	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/L	0.27 U	5.1 U	6.2 U	5.1 U	0.28 U	5.2 U	0.52 U	0.29 U	0.27 U	N/A	N/A	N/A
	2,6-Dinitrotoluene	81	ug/L	0.28 U	5.1 U	6.2 U	5.1 U	0.29 U	5.2 U	0.54 U	0.3 U	0.28 U	N/A	N/A	N/A
	3,3-Dichlorobenzidine	Null	ug/L	0.48 U	25.5 U	30.9 U	25.5 U	0.49 U	25.8 U	0.92 U	0.51 U	0.48 U	N/A	N/A	N/A
	384-Methylphenol(m,p-Cresol)	Null	ug/L	0.34 U	10.2 U	12.3 U	10.2 U	0.35 U	10.3 U	0.36 U	0.36 U	0.34 U	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	0.76 U	10.3 U	12.3 U	10.2 U	0.78 U	10.3 U	1.5 U	0.81 U	0.77 U	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	0.25 U	10.2 U	12.3 U	10.2 U	0.26 U	10.3 U	0.49 U	0.27 U	0.25 U	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	0.15 U	10.2 U	12.3 U	10.2 U	0.16 U	10.3 U	0.29 U	0.16 U	0.15 U	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	0.24 U	5.1 U	6.2 U	5.1 U	0.25 U	5.2 U	0.47 U	0.26 U	0.24 U	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	0.47 U	25.5 U	30.9 U	25.5 U	0.48 U	25.8 U	0.9 U	0.5 U	0.47 U	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	0.42 U	51 U	61.7 U	51 U	0.43 U	51.5 U	0.81 U	0.45 U	0.42 U	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	0.28 U	25.5 U	30.9 U	25.5 U	0.28 U	25.8 U	0.53 U	0.29 U	0.28 U	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	0.28 U	5.1 U	6.2 U	5.1 U	0.29 U	5.2 U	0.54 U	0.3 U	0.28 U	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	0.22 U	5.1 U	6.2 U	5.1 U	0.22 U	5.2 U	0.42 U	0.23 U	0.22 U	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	0.22 U	5.1 U	6.2 U	5.1 U	0.23 U	5.2 U	0.42 U	0.23 U	0.22 U	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	0.27 U	N/A	N/A	N/A	0.27 U	N/A	0.51 U	0.28 U	0.27 U	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	0.21 U	5.1 U	6.2 U	5.1 U	0.21 U	5.2 U	0.4 U	0.22 U	0.21 U	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	0.42 U	5.1 U	6.2 U	5.1 U	0.43 U	5.2 U	0.81 U	0.45 U	0.43 U	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	0.27 U	5.1 U	6.2 U	5.1 U	0.28 U	5.2 U	0.52 U	0.29 U	0.27 U	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	0.25 U	5.1 U	6.2 U	5.1 U	0.25 U	5.2 U	0.48 U	0.27 U	0.25 U	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	0.27 U	5.1 U	6.2 U	5.1 U	0.28 U	5.2 U	0.52 U	0.29 U	0.27 U	N/A	N/A	N/A
	Benzol[b]anthracene	Null	ug/L	16.3 U	51 U	61.7 U	51 U	50.5 U	16.8 U	51.5 U	31.4 U	17.4 U	16.4 U	N/A	N/A
	Benzyl alcohol	8.6	ug/L	0.24 U	10.2 U	12.3 U	10.2 U	0.25 U	10.3 U	0.46 U	0.26 U	0.24 U	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	0.24 U	5.1 U	6.2 U	5.1 U	0.25 U	5.2 U	0.47 U	0.26 U	0.24 U	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	0.31 U	5.1 U	6.2 U	5.1 U	0.32 U	5.2 U	0.61 U	0.34 U	0.32 U	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	0.47 U	2.6 U	3.1 U	2.6 U	0.48 U	2.6 U	0.9 U	0.5 U	0.47 U	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	0.3 U	5.1 U	6.2 U	5.1 U	0.31 U	5.2 U	0.58 U	0.32 U	0.3 U	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	0.25 U	5.1 U	6.2 U	5.1 U	0.26 U	5.2 U	0.48 U	0.27 U	0.25 U	N/A	N/A	N/A
	Chrysene	Null	ug/L	0.25 U	5.1 U	6.2 U	5.1 U	0.26 U	5.2 U	0.48 U	0.27 U	0.25 U	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	0.41 U	5.1 U	6.2 U	5.1 U	0.42 U	5.2 U	0.8 U	0.44 U	0.42 U	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	0.3 U	5.1 U	6.2 U	5.1 U	0.31 U	5.2 U	0.5 U	0.32 U	0.3 U	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	0.46 U	5.1 U	6.2 U	5.1 U	0.47 U	5.2 U	0.94 U	0.5 U	0.46 U	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	0.27 U	5.1 U	6.2 U	5.1 U	0.28 U	5.2 U	0.52 U	0.29 U	0.27 U	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	0.26 U	5.1 U	6.2 U	5.1 U	0.26 U	5.2 U	0.5 U	0.28 U	0.26 U	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	0.3 U	5.1 U	6.2 U	5.1 U	0.31 U	5.2 U	0.59 U	0.33 U	0.31 U	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	0.23 U	5.1 U	6.2 U	5.1 U	0.24 U	5.2 U	0.45 U	0.25 U	0.24 U	N/A	N/A	N/A
	Fluorene	Null	ug/L	0.22 U	5.1 U	6.2 U	5.1 U	0.23 U	5.2 U	0.43 U	0.24 U	0.22 U	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	0.35 U	2.6 U	3.1 U	2.6 U	0.36 U	2.6 U	0.68 U	0.38 U	0.35 U	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	0.28 U	5.1 U	6.2 U	5.1 U	0.28 U	5.2 U	0.53 U	0.3 U	0.28 U	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	0.5 U	20.4 U	24.7 U	20.4 U	0.51 U	20.6 U	0.96 U	0.53 U	0.5 U	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	0.33 U	5.1 U	6.2 U	5.1 U	0.34 U	5.2 U	0.64 U	0.36 U	0.34 U	N/A	N/A	N/A
	Indeno[1,2,3-ij]perylene	4.31	ug/L	0.52 U	5.1 U	6.2 U	5.1 U	0.53 U	5.2 U	1 U	0.56 U	0.52 U	N/A	N/A	N/A
	Indeno[1,2,3-ij]perylene	Null	ug/L	0.22 U	5.1 U	6.2 U	5.1 U	0.22 U	5.2 U	0.49 U	0.23 U	0.22 U	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	0.23 U	5.1 U	6.2 U	5.1 U	0.23 U	5.2 U	0.43 U	0.24 U	0.23 U	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	0.31 U	10.2 U	12.3 U	10.2 U	0.32 U	10.3 U	0.59 U	0.33 U	0.31 U	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	0.5 U	5.1 U	6.2 U	5.1 U	0.51 U	5.2 U	0.96 U	0.53 U	0.5 U	N/A	N/A	N/A
	Naphthalene	13	ug/L	0.25 U	2.6 U	3.1 U	2.6 U	0.26 U	2.6 U	0.49 U	0.27 U	0.25 U	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	0.51 U	5.1 U	6.2 U	5.1 U	0.52 U	5.2 U	0.97 U	0.54 U	0.51 U	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	0.31 U	25.5 U	30.9 U	25.5 U	0.31 U	25.8 U						

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW18											
				July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog[j,l]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 U	0.859 U	1.72 U	0.85 U	0.858 U	0.85 U	2.23 J	0.85 U	3.97	0.859 UJ	0.85 U	0.85 UJ
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog[j,l]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

NA - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW18											
				August 28, 2014		September 3, 2014		September 6, 2014		September 9, 2014		September 12, 2014		September 15, 2014	
				Field Duplicate	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample						
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 UJ	0.85 U	0.895 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW18															
Method	Analyte	Screening Value	Units	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.324 U	0.85 U	1.72 U	0.85 U	1.89 U	0.85 U	0.324 U	0.85 U	1.89 U	0.85 U	0.324 U	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j,l)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW19										SW20			
				July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 9, 2014 Field Duplicate	July 10, 2014 Field Sample		
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	0.18 U	2.5 U										
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	0.23 U	0.23 U	2.5 U										
	Trichloroethene	Null	ug/L	0.15 U	0.15 U	0.15 U	1 U										
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A										
	1-Chloro-1,1-dichloroethane	Null	ug/L	0.13 U	0.13 U	0.13 U	1 U										
	Xylenes (Total)	27	ug/L	0.31 U	0.31 U	0.30 U	0.30 U	0.31 U	0.31 U	0.31 U	5 U						
	1-Methylphthalene	2.1	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A										
	1,2-Dichlorobenzene	Null	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	1,2,4-Trichlorobenzene	Null	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	1,3-Dichlorobenzene	Null	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	1,4-Dichlorobenzene	Null	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	2-Chlorophenanthrene	Null	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	2-Chlorophenol	Null	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	2-Methylnaphthalene	330	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	2-Methyltoluene (Cresol)	67	ug/L	1.1 U	1.1 U	1.1 U	5.2 U										
	2-Nitroaniline	Null	ug/L	2.0	2.7	2.6	2.0	2.7	2.7	2.6	2.0	3.0	0.3	0.3	0.3	0.3	25.8 U
	2-Nitrophenol	Null	ug/L	1.1 U	0.28 U	0.28 U	0.28 U	0.31 U	5.2 U								
	2,2-oxobis[1-chloropropane]	Null	ug/L	1.1 U	0.24 U	0.24 U	0.23 U	0.24 U	3.5 U								
	2,4-Dichlorophenol	Null	ug/L	1.1 U	0.26 U	0.27 U	0.26 U	0.29 U	5.2 U								
	2,4-Dimethylphenol	Null	ug/L	1.1 U	0.34 U	0.34 U	0.34 U	0.37 U	5.2 U								
	2,4-Dinitrophenol	Null	ug/L	2.9	2.7	2.6	2.7	2.7	2.7	2.6	2.6	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.2 U
	2,4-Dinitrotoluene	Null	ug/L	1.1 U	0.47 U	0.47 U	0.47 U	0.51 U	0.51 U	25.8 U							
	3,3'-Dichlorobenzidine	Null	ug/L	1.1 U	0.33 U	0.33 U	0.32 U	0.33 U	0.36 U	10.3 U							
	3,8-Methylenol(m,p-Cresol)	Null	ug/L	2.3	2.2	2.1	2.2	2.2	2.2	2.1	2.1	0.75 U	0.75 U	0.73 U	0.74 U	0.81 U	10.3 U
	Bromophenyl phenyl ether	Null	ug/L	1.1 U	0.28 U	0.28 U	0.28 U	0.31 U	0.31 U	5.2 U							
	4-Chloro-3-methylphenol	Null	ug/L	1.1 U	0.25 U	0.24 U	0.25 U	0.27 U	0.27 U	10.3 U							
	4-Chloroaniline	Null	ug/L	1.1 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	10.3 U							
	4-Chlorophenyl phenyl ether	Null	ug/L	1.1 U	0.24 U	0.24 U	0.23 U	0.24 U	0.26 U	5.2 U							
	4-Nitroaniline	Null	ug/L	2.9	2.7	2.6	2.7	2.7	2.6	2.6	0.46 U	0.46 U	0.45 U	0.46 U	0.46 U	25.8 U	
	4-Nitrophenol	Null	ug/L	1.1 U	0.41 U	0.42 U	0.4 U	0.41 U	0.41 U	51.5 U							
	4,6-Dinitro-2-methylphenol	Null	ug/L	2.9	2.7	2.6	2.7	2.7	2.6	2.6	0.27 U	0.27 U	0.26 U	0.27 U	0.29 U	25.8 U	
	Acenaphthene	Null	ug/L	1.1 U	0.28 U	0.28 U	0.27 U	0.28 U	0.3 U	5.2 U							
	Acenaphthylene	4840	ug/L	1.1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	5.2 U							
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A											
	Acenaphthene	0.035	ug/L	1.1 U	0.21 U	0.22 U	0.21 U	0.21 U	0.23 U	5.2 U							
	Atrazine	Null	ug/L	N/A	N/A	N/A											
	Azobenzene	Null	ug/L	1.1 U	0.26 U	0.26 U	0.26 U	0.28 U	0.28 U								
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A											
	Benzol(<i>b</i>)fluoranthene	Null	ug/L	1.1 U	0.21 U	0.21 U	0.2 U	0.22 U	0.22 U	5.2 U							
	Benzol(<i>g,h,i</i>)perylene	7.64	ug/L	1.1 U	0.41 U	0.42 U	0.41 U	0.41 U	0.45 U	5.2 U							
	Benzol(<i>b</i>)fluoranthene	Null	ug/L	1.1 U	0.26 U	0.27 U	0.26 U	0.26 U	0.29 U	5.2 U							
	Benzol(<i>a</i>)anthracene	0.025	ug/L	1.1 U	0.24 U	0.25 U	0.24 U	0.24 U	0.26 U	5.2 U							
	Benzol(<i>j</i>)perylene	0.014	ug/L	1.1 U	0.26 U	0.27 U	0.26 U	0.26 U	0.27 U	5.2 U							
	Benzene	Null	ug/L	25.6	26.9	25.8	27.2	27.5	26.5	15.9	16.1 U	15.6 U	15.6 U	15.6 U	15.6 U	15.6 U	51.5 U
	Benzyl alcohol	8.6	ug/L	1.1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	10.3 U							
	Bis(2-chloroethyl) methane	Null	ug/L	1.1 U	0.24 U	0.24 U	0.24 U	0.24 U	0.26 U	5.2 U							
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A											
	Bis(2-chloroethyl)ether	Null	ug/L	1.1 U	0.31 U	0.31 U	0.3 U	0.31 U	0.33 U	5.2 U							
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	3.6	1.1 U	0.46 U	1.1	1.1	1.1	0.46 U	0.5 U	2.6 U					
	Butyl benzyl phthalate	Null	ug/L	1.1 U	0.3 U	0.3 U	0.29 U	0.3 U	0.32 U	5.2 U							
	Caprolactam	Null	ug/L	N/A	N/A	N/A											
	Carbazole	Null	ug/L	1.1 U	0.24 U	0.25 U	0.24 U	0.24 U	0.26 U	5.2 U							
	Chrysene	Null	ug/L	1.1 U	0.24 U	0.25 U	0.24 U	0.24 U	0.26 U	5.2 U							
	Di-n-butyl phthalate	Null	ug/L	1.1 U	0.29 U	0.3 U	0.29 U	0.29 U	0.32 U	5.2 U							
	Di-n-octyl phthalate	Null	ug/L	1.1 U	0.46 U	0.47 U	0.46 U	0.47 U	0.5 U	2.6 U							
	Dibenzofuran	Null	ug/L	1.1 U	0.26 U	0.27 U	0.26 U	0.26 U	0.29 U	5.2 U							
	Diethyl phthalate	Null	ug/L	1.1 U	0.25 U	0.25 U	0.25 U	0.25 U	0.27 U	5.2 U							
	Dimethyl phthalate	Null	ug/L	1.1 U	0.3 U	0.3 U	0.29 U	0.3 U	0.32 U	5.2 U							
	Fluoranthene	1.9	ug/L	1.1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.25 U	5.2 U							
	Fluorene	Null	ug/L	1.1 U	0.22 U	0.22 U	0.21 U	0.22 U	0.24 U	5.2 U							
	Hexachloro-1,3-butadiene	Null	ug/L	1.1 U	0.34 U	0.35 U	0.34 U	0.37 U	0.37 U	2.6 U							
	Hexachlorobenzene	Null	ug/L	1.1 U	0.27 U	0.27 U	0.26 U	0.27 U	0.29 U	5.2 U							
	Hexachlorocyclopentadiene	Null	ug/L	1.1 U	0.49 U	0.49 U	0.48 U	0.49 U	0.53 U	20.6 U							
	Hexachloroethane	Null	ug/L	1.1 U	0.32 U	0.33 U	0.32 U	0.35 U	0.35 U	5.2 U							
	Indeno[1,2,3- <i>ij</i>]perylene	4.31	ug/L</td														

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW20															
Method	Analyte	Screening Value	Units	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 21, 2014 Field Sample	July 24, 2014 Field Sample	July 27, 2014 Field Sample	July 30, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.18 U	2.5 U	0.18 U	0.18 U	0.18 U	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	2.5 U	2.5 U	2.5 U	0.23 U	2.5 U	0.23 U	0.23 UU	0.23 U	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	1 U	1 U	1 U	0.15 U	1 U	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A											
	1-Chloro-1,1-dichloroethane	Null	ug/L	1 U	1 U	1 U	0.13 U	1 U	0.13 U	0.13 U	0.13 U	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	5 U	5 U	5 U	0.31 U	5 U	0.31 U	0.31 U	0.31 U	N/A	N/A	N/A	N/A
	1-Methylphenylene	2.1	ug/L	5.3 U	5.2 U	5 U	0.27 U	5.3 U	0.27 U	0.25 U	0.25 U	N/A	N/A	N/A	N/A
	1,1-Biphenyl	Null	ug/L	N/A											
	1,2-Dichlorobenzene	Null	ug/L	5.3 U	5.2 U	5 U	0.29 U	5.3 U	0.29 U	0.26 U	0.27 U	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	5.3 U	5.2 U	5 U	0.33 U	5.3 U	0.32 U	0.3 U	0.3 U	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	5.3 U	5.2 U	5 U	0.31 U	5.3 U	0.31 U	0.28 U	0.29 U	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	5.3 U	5.2 U	5 U	0.33 U	5.3 U	0.33 U	0.3 U	0.31 U	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	5.3 U	5.2 U	5 U	0.27 U	5.3 U	0.27 U	0.25 U	0.26 U	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	5.3 U	5.2 U	5 U	0.24 U	5.3 U	0.24 U	0.22 U	0.22 U	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	5.3 U	5.2 U	5 U	0.31 U	5.3 U	0.31 U	0.28 U	0.29 U	N/A	N/A	N/A	N/A
	2-Methylphenol (Cresol)	67	ug/L	5.3 U	5.2 U	5 U	0.3 U	5.3 U	0.3 U	0.28 U	0.28 U	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	26.3 U	26 U	25 U	0.32 U	26.3 U	0.32 U	0.3 U	0.3 U	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	5.3 U	5.2 U	5 U	0.3 U	5.3 U	0.3 U	0.28 U	0.29 U	N/A	N/A	N/A	N/A
	2,2-oxobis[1-chloropropane]	Null	ug/L	3.6 U	3.5 U	3.4 U	0.26 U	3.6 U	0.26 U	0.23 U	0.24 U	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	5.3 U	5.2 U	5 U	0.28 U	5.3 U	0.28 U	0.26 U	0.25 U	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	5.3 U	5.2 U	5 U	0.37 U	5.3 U	0.37 U	0.34 U	0.34 U	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	52.6 U	52.1 U	50 U	1.1 U	52.6 U	1.1 U	1 U	1.1 U	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	5.3 U	5.2 U	5 U	0.27 U	5.3 U	0.27 U	0.25 U	0.25 U	N/A	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	5.3 U	5.2 U	5 U	0.45 U	5.3 U	0.45 U	0.41 U	0.42 U	N/A	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/L	5.3 U	5.2 U	5 U	0.28 U	5.3 U	0.28 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A
	2,6-Dinitrotoluene	81	ug/L	5.3 U	5.2 U	5 U	0.29 U	5.3 U	0.29 U	0.27 U	0.27 U	N/A	N/A	N/A	N/A
	3,3-Dichlorobenzidine	Null	ug/L	26.3 U	26 U	25 U	0.51 U	26.3 U	0.5 U	0.46 U	0.47 U	N/A	N/A	N/A	N/A
	384-Methylphenol(m,p-Cresol)	Null	ug/L	10.5 U	10.4 U	10 U	0.8 U	10.5 U	0.8 U	0.73 U	0.75 U	N/A	N/A	N/A	N/A
	Bromophenyl phenyl ether	Null	ug/L	5.3 U	5.2 U	5 U	0.3 U	5.3 U	0.3 U	0.28 U	0.28 U	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	10.5 U	10.4 U	10 U	0.27 U	10.5 U	0.26 U	0.24 U	0.25 U	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	10.5 U	10.4 U	10 U	0.16 U	10.5 U	0.16 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	5.3 U	5.2 U	5 U	0.26 U	5.3 U	0.25 U	0.23 U	0.24 U	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	26.3 U	26 U	25 U	0.5 U	26.3 U	0.49 U	0.45 U	0.46 UJ	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	52.6 U	52.1 U	50 U	0.44 U	52.6 U	0.44 U	0.4 U	0.41 U	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	26.3 U	26 U	25 U	0.29 U	26.3 U	0.29 U	0.26 U	0.27 U	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	5.3 U	5.2 U	5 U	0.3 U	5.3 U	0.3 U	0.27 U	0.28 U	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	5.3 U	5.2 U	5 U	0.23 U	5.3 U	0.23 U	0.21 U	0.21 U	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A											
	Anthracene	0.035	ug/L	5.3 U	5.2 U	5 U	0.23 U	5.3 U	0.23 U	0.21 U	0.22 U	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A											
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	0.28 U	0.28 U	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A											
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	5.3 U	5.2 U	5 U	0.22 U	5.3 U	0.22 U	0.2 U	0.2 U	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	5.3 U	5.2 U	5 U	0.45 U	5.3 U	0.44 U	0.41 U	0.42 UJ	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	5.3 U	5.2 U	5 U	0.29 U	5.3 U	0.28 U	0.26 U	0.27 U	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	5.3 U	5.2 U	5 U	0.26 U	5.3 U	0.26 U	0.24 U	0.24 U	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	5.3 U	5.2 U	5 U	0.29 U	5.3 U	0.28 U	0.26 U	0.27 U	N/A	N/A	N/A	N/A
	Benzol[b]pyrene	Null	ug/L	52.6 U	52.1 U	50 U	17.2 U	52.6 U	17 U	15.6 U	16 U	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	10.5 U	10 U	10 U	0.25 U	10.5 U	0.25 U	0.24 U	0.24 U	N/A	N/A	N/A	N/A
	Bis(2-chlorovinyl)methane	Null	ug/L	5.3 U	5.2 U	5 U	0.26 U	5.3 U	0.25 U	0.23 U	0.24 U	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A											
	Bis(2-chloroethyl)ether	Null	ug/L	5.3 U	5.2 U	5 U	0.33 U	5.3 U	0.33 U	0.3 U	0.31 U	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	2.6 U	2.6 U	2.5 U	0.5 U	2.6 U	0.49 U	0.45 U	0.46 U	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	5.3 U	5.2 U	5 U	0.32 U	5.3 U	0.32 U	0.29 U	0.3 U	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A											
	Carbazole	Null	ug/L	5.3 U	5.2 U	5 U	0.26 U	5.3 U	0.26 U	0.24 U	0.24 U	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	5.3 U	5.2 U	5 U	0.26 U	5.3 U	0.26 U	0.24 U	0.24 U	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	5.3 U	5.2 U	5 U	0.44 U	5.3 U	0.43 U	0.4 U	0.41 U	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	5.3 U	5.2 U	5 U	0.32 U	5.3 U	0.32 U	0.29 U	0.3 U	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	5.3 U	5.2 U	5 U	0.32 U	5.3 U	0.31 U	0.47 U	0.46 UJ	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	5.3 U	5.2 U	5 U	0.28 U	5.3 U	0.28 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	5.3 U	5.2 U	5 U	0.27 U	5.3 U	0.27 U	0.25 U	0.25 U	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	5.3 U	5.2 U	5 U	0.32 U	5.3 U	0.32 U	0.29 U	0.3 U	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	5.3 U	5.2 U	5 U	0.25 U	5.3 U	0.25 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	5.3 U	5.2 U	5 U	0.23 U	5.3 U	0.23 U	0.21 U	0.22 U	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	2.6 U	2.6 U	2.5 U	0.37 U	2.6 U	0.37 U	0.34 U	0.35 U	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	5.3 U	5.2 U	5 U	0.29 U	5.3 U	0.29 U	0.26 U	0.27 U	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	21.1 U	20.8 U	20 U	0.53 U	21.1 U	0.52 U	0.48 U	0.49 U	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	5.3 U	5.2 U	5 U	0.35 U	5.3 U	0.35 U	0.32 U	0.33 U	N/A	N/A	N/A	N/A
	Indeno[1,2,3-ij]perylene	4.31	ug/L	5.3 U	5.2 U	5 U	0.55 U	5.3 U	0.54 U	0.5 U	0.51 UJ	N/A	N/A	N/A	N/A
	Indeno[1,2,3-ij]perylene	Null	ug/L	5.3 U	5.2 U	5 U	0.23 U	5.3 U	0.23 U	0.21 U	0.22 U	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A											
	N-Nitrosodimethylamine	Null	ug/L	10.5 U	10.4 U	10 U	0.33 U	10.5 U	0.32 U	0.3 U	0.3 U	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	5.3 U	5.2 U	5 U	0.53 U	5.3 U	0.52 U	0.48 U	0.49 U	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	2.6 U	2.6 U	2.5 U	0.27 U	2.6 U	0.26 U	0.24 U	0.25 U	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	5.3 U	5.2 U	5 U	0.53 U	5.3 U	0.53 U	0.48 U	0.5 U	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	26.3 U	26 U	25 U	0.32 U	26.3 U	0.32 U	0.29 U	0.3 U	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	5.3 U	5.2 U	5 U	0.26 U	5.3 U	0.26 U	0.24 U	0.24 U	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	5.3 U	5.2 U	5 U	0.3 U	5.3 U	0.3 U	0.27 U	0.28 U	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	5.3 U	5.2 U	5 U	0.31 U	5.3 U	0.31 U	0.29 U	0.29 U	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	37													

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20											
				August 2, 2014 Field Sample	August 5, 2014 Field Sample	August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample	August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloro-1,1-dichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	1.7 U	0.859 U	0.885 U	0.867 U	0.85 U	0.885 U	0.85 U	0.85 U	0.859 U	0.85 U	0.85 U	0.867 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20											
				September 7, 2014		September 10, 2014		September 13, 2014		September 16, 2014		September 19, 2014		September 22, 2014	
				Field Sample	N/A	Field Sample	N/A	Field Sample	Field Duplicate	Field Sample	N/A	Field Sample	N/A	Field Sample	Field Duplicate
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	9.72	0.867 U	1.89 U	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(b)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j,l)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW21											SW21											
Method	Analyte	Screening Value	Units	July 14, 2014		July 15, 2014		July 16, 2014		July 17, 2014		July 18, 2014		July 20, 2014		July 23, 2014		July 26, 2014		July 29, 2014		August 1, 2014
				Field Sample	Field Sample																	
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	2.5 U	0.18 U	0.18 U	0.23 U	0.23 U	0.15 U	0.15 U	0.13 U	0.13 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	2.5 U	0.23 U	0.23 U	0.16 U	1.0 U	0.15 U	0.15 U	0.13 U	0.13 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Trichloroethylene	Null	ug/L	0.16 U	1.0 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Trichloroformate	Null	ug/L	N/A	N/A																	
	Vinyl chloride	Null	ug/L	0.19 U	1.0 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Xylene (Total)	27	ug/L	0.31 U	5.0 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1-Methylnaphthalene	2.1	ug/L	0.24 U	5.3 U	0.52 U	1.3 U	0.26 U	N/A	N/A	N/A											
	1,1'-Biphenyl	Null	ug/L	N/A	N/A																	
	1,2-Dichlorobenzene	Null	ug/L	0.26 U	5.3 U	0.55 U	1.4 U	0.28 U	N/A	N/A	N/A											
	1,2,4-Trichlorobenzene	Null	ug/L	0.29 U	5.3 U	0.62 U	1.6 U	0.32 U	N/A	N/A	N/A											
	1,3-Dichlorobenzene	Null	ug/L	0.28 U	5.3 U	0.59 U	1.5 U	0.3 U	N/A	N/A	N/A											
	1,4-Dichlorobenzene	Null	ug/L	0.29 U	5.3 U	0.63 U	1.6 U	0.32 U	N/A	N/A	N/A											
	2-Chloronaphthalene	Null	ug/L	0.24 U	5.3 U	0.53 U	1.3 U	0.27 U	N/A	N/A	N/A											
	2-Chlorophenol	Null	ug/L	0.21 U	5.3 U	0.45 U	1.1 U	0.23 U	N/A	N/A	N/A											
	2-Methylbenzaldehyde	330	ug/L	0.20 U	5.3 U	0.60 U	1.5 U	0.3 U	N/A	N/A	N/A											
	2-Methylphenol(α-Cresol)	67	ug/L	0.27 U	5.3 U	0.58 U	1.5 U	0.30 U	N/A	N/A	N/A											
	2-Nitroaniline	Null	ug/L	0.29 U	26.3 U	0.62 U	1.6 U	0.31 U	N/A	N/A	N/A											
	2-Nitrophenol	Null	ug/L	0.27 U	5.3 U	0.58 U	1.5 U	0.29 U	N/A	N/A	N/A											
	2,2'-oxybis[1-chloropropane]	Null	ug/L	0.23 U	3.6 U	0.49 U	1.2 U	0.25 U	N/A	N/A	N/A											
	2,4-Dichlorophenol	Null	ug/L	0.25 U	5.3 U	0.54 U	1.4 U	0.27 U	N/A	N/A	N/A											
	2,4-Dimethylphenol	Null	ug/L	0.33 U	5.3 U	0.71 U	1.8 U	0.36 U	N/A	N/A	N/A											
	2,4-Dinitrophenol	Null	ug/L	1 U	52.6 U	2.2 U	5.5 U	1.1 U	N/A	N/A	N/A											
	2,4-Dinitrotoluene	Null	ug/L	0.24 U	5.3 U	0.52 U	1.3 U	0.26 U	N/A	N/A	N/A											
	2,4,5-Trichlorophenol	Null	ug/L	0.4 U	5.3 U	0.87 U	2.2 U	0.44 U	N/A	N/A	N/A											
	2,4,6-Trichlorophenol	Null	ug/L	0.25 U	5.3 U	0.54 U	1.4 U	0.27 U	N/A	N/A	N/A											
	2,6-Dinitrotoluene	81	ug/L	0.26 U	5.3 U	0.56 U	1.4 U	0.28 U	N/A	N/A	N/A											
	3-Aminotoluene	Null	ug/L	0.45 U	3.6 U	0.97 U	2.4 U	0.40 U	N/A	N/A	N/A											
	3,3'-Dichlorobenzidine	Null	ug/L	0.32 U	10.5 U	0.68 U	1.7 U	0.34 U	N/A	N/A	N/A											
	384-Methylphenol(m&p Cresol)	Null	ug/L	0.71 U	10.5 U	1.5 U	3.9 U	0.78 U	N/A	N/A	N/A											
	4-Bromophenyl phenyl ether	Null	ug/L	0.27 U	5.3 U	0.58 U	1.5 U	0.29 U	N/A	N/A	N/A											
	4-Chloro-3-methylphenol	Null	ug/L	0.24 U	10.5 U	0.51 U	1.3 U	0.26 U	N/A	N/A	N/A											
	4-Chlorophenyl phenyl ether	Null	ug/L	0.23 U	5.3 U	0.49 U	1.2 U	0.25 U	N/A	N/A	N/A											
	4-Nitroaniline	Null	ug/L	0.44 U	26.3 U	0.95 U	2.4 U	0.48 UJ	N/A	N/A	N/A											
	4-Nitrophenol	Null	ug/L	0.39 U	52.6 U	0.85 U	2.1 U	0.43 U	N/A	N/A	N/A											
	4,6-Dinitro-2-methylphenol	Null	ug/L	0.26 U	26.3 U	0.56 U	1.4 U	0.28 U	N/A	N/A	N/A											
	Acenaphthene	Null	ug/L	0.27 U	5.3 U	0.57 U	1.4 U	0.29 U	N/A	N/A	N/A											
	Acenaphthylene	4840	ug/L	0.2 U	5.3 U	0.44 U	1.1 U	0.22 U	N/A	N/A	N/A											
	Acenaphthone	Null	ug/L	N/A	N/A																	
	Aniline	0.035	ug/L	0.21 U	5.3 U	0.44 U	1.1 U	0.22 U	N/A	N/A	N/A											
	Atrazine	Null	ug/L	N/A	N/A																	
	Azobenzene	Null	ug/L	0.25 U	N/A	0.54 U	1.3 U	0.27 U	N/A	N/A	N/A											
	Benzaldehyde	Null	ug/L	N/A	N/A																	
	Benz(b)fluoranthene	Null	ug/L	0.19 U	5.3 U	0.42 U	1.1 U	0.21 U	N/A	N/A	N/A											
	Benz(g,h)perylene	7.64	ug/L	0.4 U	5.3 U	0.85 U	2.1 U	0.43 UJ	N/A	N/A	N/A											
	Benz(k)fluoranthene	Null	ug/L	0.26 U	5.3 U	0.55 U	1.4 U	0.28 U	N/A	N/A	N/A											
	Benz[a]anthracene	0.025	ug/L	0.23 U	5.3 U	0.50 U	1.3 U	0.25 U	N/A	N/A	N/A											
	Benz(a)pyrene	0.014	ug/L	0.25 U	5.3 U	0.55 U	1.4 U	0.28 U	N/A	N/A	N/A											
	Benzal acid	Null	ug/L	15.3 U	52.6 U	33 U	82.9 U	16.7 U	N/A	N/A	N/A											
	Benzyl alcohol	8.6	ug/L	0.23 U	10.5 U	0.49 U	1.2 U	0.25 U	N/A	N/A	N/A											
	Bis(2-chloroethyl) methane	Null	ug/L	0.20 U	5.3 U	0.49 U	1.2 U	0.23 U	N/A	N/A	N/A											
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A																	
	Bis(2-chloroethyl)ether	Null	ug/L	0.29 U	5.3 U	0.64 U	1.6 U	0.32 U	N/A	N/A	N/A											
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	0.44 U	2.6 U	0.95 U	2.4 U	0.48 U	N/A	N/A	N/A											
	Butyl benzyl phthalate	Null	ug/L	0.28 U	5.3 U	0.61 U	1.5 U	0.31 U	N/A	N/A	N/A											
	Caprolactam	Null	ug/L	N/A	N/A																	
	Carbazole	Null	ug/L	0.23 U	5.3 U	0.5 U	1.3 U	0.25 U	N/A	N/A	N/A											
	Chrysene	Null	ug/L	0.23 U	5.3 U	0.5 U	1.3 U	0.25 U	N/A	N/A	N/A											
	Di-n-butyl phthalate	Null	ug/L	0.39 U	5.3 U	0.84 U	2.1 U	0.42 U	N/A	N/A	N/A											
	Di-n-octyl phthalate	Null	ug/L	0.28 U	5.3 U	0.61 U	1.5 U	0.31 U	N/A	N/A	N/A											
	Dibenzo(a,h)anthracene	Null	ug/L	0.46 U	5.3 U	0.99 U	2.5 U	0.5 U	N/A	N/A	N/A											
	Dibenzofuran	Null	ug/L	0.25 U	5.3 U	0.54 U	1.4 U	0.27 U	N/A	N/A	N/A											
	Diphenyl ether	Null	ug/L	0.24 U	5.3 U	0.52 U	1.3 U	0.26 U	N/A	N/A	N/A											
	Dimethyl phthalate	Null	ug/L	0.20 U	5.3 U	0.62 U	1.5 U	0.31 U	N/A	N/A	N/A											
	Fluorene	1.9	ug/L	0.22 U	5.3 U	0.47 U	1.2 U	0.24 U	N/A	N/A	N/A											
	Hexachloro-1,3-butadiene	Null	ug/L	0.33 U	2.6 U	0.71 U	1.8 U	0.36 U	N/A	N/A	N/A											
	Hexachlorobenzene	Null	ug/L	0.26 U	5.3 U	0.56 U	1.4 U	0.28 U	N/A	N/A	N/A											
	Hexachlorocyclopentadiene	Null	ug/L	0.47 U	21.1 U	1 U	2.5 U	0.51 U	N/A	N/A	N/A											
	Hexachloroethane	Null	ug/L	0.31 U	5.3 U	0.67 U	1.7 U	0.34 U														

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL)

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

													SW21T		
Method	Analyte	Screening Value	Units	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[e]pyrene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	2.05 J	0.85 U	0.85 U	7.12	0.85 U	15.7	0.85 U							
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21T											
				September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	October 1, 2014 Field Sample	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Chlorobenzoic acid	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[e]anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Methylnaphthalene, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.85 U	0.85 U	0.924 U	0.85 U	2.02 U	0.85 U	0.85 U	0.924 U	0.85 U	0.85 U	1.7 U	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21T								SW22		SW23	
				October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	June 30, 2014 Field Sample	July 2, 2014 Field Sample	July 6, 2014 Field Sample	August 13, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	0.18 U	0.18 U	N/A	N/A							
	trans-1,3-Dichloropropene	Null	ug/L	N/A	0.23 U	0.23 U	N/A	N/A							
	Trichloroethene	Null	ug/L	N/A	0.15 U	0.15 U	N/A	N/A							
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	1,1,1-Trichloroethane	Null	ug/L	N/A	0.15 U	0.15 U	N/A	N/A							
	Xylenes (Total)	27	ug/L	N/A	0.31 U	0.31 U	N/A	N/A							
	1-Methylnaphthalene	2.1	ug/L	N/A	1.2 U	1.1 U	0.24 U	N/A							
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	1,2-Dichlorobenzene	Null	ug/L	N/A	1.2 U	1.1 U	0.26 U	N/A							
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	1.2 U	1.1 U	0.29 U	N/A							
	1,3-Dichlorobenzene	Null	ug/L	N/A	1.2 U	1.1 U	0.28 U	N/A							
	1,4-Dichlorobenzene	Null	ug/L	N/A	1.2 U	1.1 U	0.3 U	N/A							
	2-Chloronaphthalene	Null	ug/L	N/A	1.2 U	1.1 U	0.25 U	N/A							
	2-Chlorophenol	Null	ug/L	N/A	1.2 U	1.1 U	0.21 U	N/A							
	2-Methylnaphthalene	330	ug/L	N/A	1.2 U	1.1 U	0.28 U	N/A							
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	1.2 U	1.1 U	0.27 U	N/A							
	2-Nitroaniline	Null	ug/L	N/A	3 U	2.6 U	0.29 U	N/A							
	2-Nitrophenol	Null	ug/L	N/A	1.2 U	1.1 U	0.27 U	N/A							
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	1.2 U	1.1 U	0.23 U	N/A							
	2,4-Dichlorophenol	Null	ug/L	N/A	1.2 U	1.1 U	0.25 U	N/A							
	2,4-Dimethylphenol	Null	ug/L	N/A	1.2 U	1.1 U	0.33 U	N/A							
	2,4-Dinitrophenol	Null	ug/L	N/A	3 U	2.6 U	1 U	N/A							
	2,4-Dinitrotoluene	81	ug/L	N/A	1.2 U	1.1 U	0.41 U	N/A							
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	1.2 U	1.1 U	0.32 U	N/A							
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	1.2 U	1.1 U	0.72 U	N/A							
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	1.2 U	1.1 U	0.24 U	N/A							
	4-Chloro-3-methylphenol	Null	ug/L	N/A	1.2 U	1.1 U	0.14 U	N/A							
	4-Chloroaniline	Null	ug/L	N/A	1.2 U	1.1 U	0.23 U	N/A							
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	1.2 U	1.1 U	0.4 U	N/A							
	4-Nitroaniline	Null	ug/L	N/A	3 U	2.6 U	0.44 U	N/A							
	4-Nitrophenol	Null	ug/L	N/A	1.2 U	1.1 U	0.26 U	N/A							
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	3 U	2.6 U	0.27 U	N/A							
	Acenaphthene	Null	ug/L	N/A	1.2 U	1.1 U	0.21 U	N/A							
	Acenaphthylene	4840	ug/L	N/A	1.2 U	1.1 U	0.26 U	N/A							
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Anthracene	0.035	ug/L	N/A	1.2 U	1.1 U	0.21 U	N/A							
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Azobenzene	Null	ug/L	N/A	1.2 U	1.1 U	0.25 U	N/A							
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	N/A	1.2 U	1.1 U	0.2 U	N/A							
	Benzol[h,j]perylene	7.64	ug/L	N/A	1.2 U	1.1 U	0.4 U	N/A							
	Benzol[k]fluoranthene	Null	ug/L	N/A	1.2 U	1.1 U	0.26 U	N/A							
	Benzol[a]anthracene	0.025	ug/L	N/A	1.2 U	1.1 U	0.24 U	N/A							
	Benzol[a]pyrene	0.014	ug/L	N/A	1.2 U	1.1 U	0.26 U	N/A							
	Benzol[e]anthracene	Null	ug/L	N/A	30.1 U	26.5 U	15.5 U	N/A							
	Benzyl alcohol	8.6	ug/L	N/A	1.2 U	1.1 U	0.23 U	N/A							
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	1.2 U	1.1 U	0.23 U	N/A							
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	1.2 U	1.1 U	0.3 U	N/A							
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	1.2 U	1.1 U	0.45 U	N/A							
	Butyl benzyl phthalate	Null	ug/L	N/A	1.2 U	1.1 U	0.29 U	N/A							
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Carbazole	Null	ug/L	N/A	1.2 U	1.1 U	0.24 U	N/A							
	Chrysene	Null	ug/L	N/A	1.2 U	1.1 U	0.24 U	N/A							
	Di-n-butyl phthalate	Null	ug/L	N/A	1.2 U	1.1 U	0.39 U	N/A							
	Di-n-octyl phthalate	Null	ug/L	N/A	1.2 U	1.1 U	0.39 U	N/A							
	Dibenzofuran	Null	ug/L	N/A	1.2 U	1.1 U	0.48 U	N/A							
	Diethyl phthalate	Null	ug/L	N/A	1.2 U	1.1 U	0.25 U	N/A							
	Dimethyl phthalate	Null	ug/L	N/A	1.2 U	1.1 U	0.29 U	N/A							
	Fluoranthene	1.9	ug/L	N/A	1.2 U	1.1 U	0.22 U	N/A							
	Fluorene	Null	ug/L	N/A	1.2 U	1.1 U	0.21 U	N/A							
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	1.2 U	1.1 U	0.33 U	N/A							
	Hexachlorobenzene	Null	ug/L	N/A	1.2 U	1.1 U	0.26 U	N/A							
	Hexachlorocyclopentadiene	Null	ug/L	N/A	1.2 U	1.1 U	0.47 U	N/A							
	Hexachloroethane	Null	ug/L	N/A	1.2 U	1.1 U	0.32 U	N/A							
	Indeno[1,2,3-j,k]perylene	4.31	ug/L	N/A	1.2 U	1.1 U	0.49 U	N/A							
	Methylnaphthalene, 3 & 4	Null	ug/L	N/A	1.2 U	1.1 U	0.37 U	N/A							
	Methylphenol, N-n-propylamine	Null	ug/L	N/A	1.2 U	1.1 U	0.21 U	N/A							
	N-Nitrosodimethylamine	Null	ug/L	N/A	1.2 U	1.1 U	0.29 U	N/A							
	N-Nitrosodiphenylamine	Null	ug/L	N/A	1.2 U	1.1 U	0.47 U	N/A							
	Naphthalene	13	ug/L	N/A	1.2 U	1.1 U	0.24 U	N/A							
	Nitrobenzene	Null	ug/L	N/A	1.2 U	1.1 U	0.48 U	N/A							
	Pentachlorophenol	Null	ug/L	N/A	3 U	2.6 U	0.29 U	N/A							
	Phenanthrene	3.6	ug/L	N/A	1.2 U	1.1 U	0.23 U	N/A							
	Phenol	180	ug/L	N/A	1.2 U	1.1 U	0.27 U	N/A							
	Pyrene	0.3	ug/L	N/A	1.2 U	1.1 U	0.28 U	N/A							
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A							
GCAL SOP HPLC	TTPC	0.85 U	ug/L	1.7 U	0.85 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.7 J	18.3
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A							
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A							
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A							
	Benzol[b]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Benzol[h,j]perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A							
	Benzol[k]fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Benzol[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A							
MA-EPH	Benzol[a]pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A							

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

SW24															
Method	Analyte	Screening Value	Units	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 19, 2014 Field Sample	July 22, 2014 Field Sample	July 25, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	2.5 U	0.18 U	2.5 U	0.18 U	0.18 U	0.18 U	0.18 U	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	0.23 U	2.5 U	0.23 U	2.5 U	0.23 UJ	0.23 UJ	0.23 U	0.23 U	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	0.15 U	0.15 U	1 U	1 U	0.15 U	1 U	0.15 U	0.15 U	0.15 U	0.15 U	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	0.13 U	0.13 U	1 U	1 U	0.13 U	1 U	0.13 U	0.13 U	0.13 U	0.13 U	N/A	N/A
	Xylenes (Total)	27	ug/L	0.031 U	0.031 U	5 U	5 U	0.031 U	5 U	0.031 U	0.031 U	0.031 U	0.031 U	5 U	N/A
	1-Methylphthalene	2.1	ug/L	2.5 U	2.4 U	5.1 U	5.1 U	2.4 U	5.8 U	2.4 U	2.8 U	0.25 U	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	2.6 U	2.5 U	5.1 U	5.1 U	2.6 U	5.8 U	2.6 U	3 U	0.26 U	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	2.9 U	2.9 U	5.1 U	5.1 U	2.9 U	5.8 U	2.9 U	3.3 U	0.3 U	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	2.8 U	2.7 U	5.1 U	5.1 U	2.8 U	5.8 U	2.8 U	3.2 U	0.28 U	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	3 U	2.9 U	5.1 U	5.1 U	3 U	5.8 U	3 U	3.4 U	0.3 U	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	2.5 U	2.4 U	5.1 U	5.1 U	2.5 U	5.8 U	2.5 U	2.8 U	0.25 U	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	2.1 U	2.1 U	5.1 U	5.1 U	2.1 U	5.8 U	2.1 U	2.4 U	0.22 U	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	2.8 U	2.7 U	5.1 U	5.1 U	2.8 U	5.8 U	2.8 U	3 U	0.28 U	N/A	N/A	N/A
	2,4-Dimethylphenol	67	ug/L	2.7 U	2.7 U	5.1 U	5.1 U	2.7 U	5.8 U	2.7 U	3.1 U	0.26 U	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	2.9 U	2.8 U	25.3 U	5.1 U	2.9 U	29.1 U	3.3 U	0.3 U	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	2.7 U	2.7 U	5.1 U	5.1 U	2.7 U	5.8 U	2.7 U	3.1 U	0.28 U	N/A	N/A	N/A
	2,2-oxobis[1-chloropropane]	Null	ug/L	2.3 U	2.3 U	3.4 U	*	2.3 U	4 U	2.3 U	2.6 U	0.24 U	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	2.6 U	2.5 U	5.1 U	5.1 U	2.5 U	5.8 U	2.5 U	2.9 U	0.26 U	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	3.3 U	3.3 U	5.1 U	5.1 U	3.3 U	5.8 U	3.3 U	3.8 U	0.34 U	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	10.4 U	10.1 U	50.5 U	*	10.3 U	58.1 U	10.3 U	11.8 U	1 U	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	2.4 U	2.4 U	5.1 U	5.1 U	2.4 U	5.8 U	2.4 U	2.8 U	0.25 U	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	4.1 U	4 U	5.1 U	5.1 U	4.1 U	5.8 U	4.1 U	4.6 U	0.41 U	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/L	2.6 U	2.5 U	5.1 U	5.1 U	2.5 U	5.8 U	2.6 U	2.9 U	0.26 U	N/A	N/A	N/A
	2,6-Dinitrotoluene	81	ug/L	2.7 U	2.6 U	5.1 U	5.1 U	2.6 U	5.8 U	2.6 U	3 U	0.27 U	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	4.6 U	4.4 U	25.3 U	*	4.5 U	29.1 U	4.5 U	5.2 U	0.46 U	N/A	N/A	N/A
	384-Methylphenol(m,p-Cresol)	Null	ug/L	3.2 U	3.1 U	10.1 U	*	3.2 U	11.6 U	3.2 U	3.6 U	0.32 U	N/A	N/A	N/A
	Bromophenyl phenyl ether	Null	ug/L	7.3 U	7.1 U	10.1 U	*	7.2 U	11.6 U	7.2 U	8.2 U	0.73 U	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	2.7 U	2.7 U	5.1 U	5.1 U	2.7 U	5.8 U	2.7 U	3.1 U	0.28 U	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	2.4 U	2.3 U	10.1 U	*	2.4 U	11.6 U	2.4 U	2.7 U	0.24 U	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	2.3 U	2.3 U	5.1 U	5.1 U	2.3 U	5.8 U	2.3 U	2.6 U	0.23 U	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	4.5 U	4.4 U	25.3 U	*	4.4 U	29.1 U	4.4 U	5.1 U	0.45 U	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	4 U	3.9 U	50.5 U	*	4 U	58.1 U	4 U	4.5 U	0.4 U	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	2.6 U	2.6 U	25.3 U	*	2.6 U	29.1 U	2.6 U	3 U	0.26 U	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	2.7 U	2.6 U	5.1 U	5.1 U	2.7 U	5.8 U	2.7 U	3.1 U	0.27 U	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	2.1 U	2 U	5.1 U	5.1 U	2.1 U	5.8 U	2.1 U	2.3 U	0.21 U	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	2.1 U	2 U	5.1 U	5.1 U	2.1 U	5.8 U	2.1 U	2.4 U	0.21 U	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	2.5 U	2.5 U	N/A	N/A	2.5 U	N/A	2.5 U	2.9 U	0.26 U	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Benzol[b]fluoranthene	Null	ug/L	2 U	1.9 U	5.1 U	5.1 U	2 U	5.8 U	2 U	2.2 U	0.2 U	N/A	N/A	N/A
	Benzol[h,j]perylene	7.64	ug/L	4 U	3.9 U	5.1 U	5.1 U	4 U	5.8 U	4 U	4.6 U	0.41 UJ	N/A	N/A	N/A
	Benzol[k]fluoranthene	Null	ug/L	2.6 U	2.5 U	5.1 U	5.1 U	2.6 U	5.8 U	2.6 U	2.9 U	0.26 U	N/A	N/A	N/A
	Benzol[a]anthracene	0.025	ug/L	2.4 U	2.3 U	5.1 U	5.1 U	2.4 U	5.8 U	2.4 U	2.7 U	0.24 U	N/A	N/A	N/A
	Benzol[j]perylene	0.014	ug/L	2.6 U	2.5 U	5.1 U	5.1 U	2.6 U	5.8 U	2.6 U	2.9 U	0.26 U	N/A	N/A	N/A
	Benzol[a]anthracene	Null	ug/L	155 U	152 U	50.5 U	50.5 U	155 U	58.1 U	155 U	176 U	15.7 U	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	23 U	22 U	10.1 U	*	23 U	11.6 U	23 U	2.6 U	0.23 U	N/A	N/A	N/A
	Bis(2-chlorovinyl)methane	Null	ug/L	2.3 U	2.3 U	5.1 U	5.1 U	2.3 U	5.8 U	2.3 U	2.6 U	0.23 U	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	3 U	2.9 U	5.1 U	5.1 U	3 U	5.8 U	3 U	3.4 U	0.3 U	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	4.5 U	4.4 U	25 U	*	4.5 U	29 U	4.5 U	5.1 U	0.45 U	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	2.9 U	2.8 U	5.1 U	5.1 U	2.9 U	5.8 U	2.9 U	3.3 U	0.29 U	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	2.4 U	2.3 U	5.1 U	5.1 U	2.4 U	5.8 U	2.4 U	2.7 U	0.24 U	N/A	N/A	N/A
	Chrysene	Null	ug/L	2.4 U	2.3 U	5.1 U	5.1 U	2.4 U	5.8 U	2.4 U	2.7 U	0.24 U	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	3.9 U	3.8 U	5.1 U	5.1 U	3.9 U	5.8 U	3.9 U	4.5 U	0.4 U	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	2.9 U	2.8 U	5.1 U	5.1 U	2.9 U	5.8 U	2.9 U	3.3 U	0.29 U	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	4.7 U	4.5 U	5.1 U	5.1 U	4.7 U	5.8 U	4.7 U	5.3 U	0.47 U	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	2.6 U	2.5 U	5.1 U	5.1 U	2.5 U	5.8 U	2.5 U	2.9 U	0.26 U	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	2.5 U	2.4 U	5.1 U	5.1 U	2.4 U	5.8 U	2.4 U	2.8 U	0.25 U	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	2.9 U	2.8 U	5.1 U	5.1 U	2.9 U	5.8 U	2.9 U	3.3 U	0.29 U	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	2.2 U	2.2 U	5.1 U	5.1 U	2.2 U	5.8 U	2.2 U	2.5 U	0.23 U	N/A	N/A	N/A
	Fluorene	Null	ug/L	2.1 U	2.1 U	5.1 U	5.1 U	2.1 U	5.8 U	2.1 U	2.4 U	0.21 U	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	3.4 U	3.3 U	2.9 U	*	3.3 U	2.9 U	3.3 U	3.8 U	0.34 U	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	2.6 U	2.6 U	5.1 U	5.1 U	2.6 U	5.8 U	2.6 U	3 U	0.27 U	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	4.8 U	4.6 U	20.2 U	*	4.7 U	23.3 U	4.7 U	5.4 U	0.48 U	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	3.2 U	3.1 U	5.1 U	5.1 U	3.2 U	5.8 U	3.2 U	3.6 U	0.32 U	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	5 U	4.8 U	5.1 U	5.1 U	4.9 U	5.8 U	4.9 U	5.6 U	0.5 U	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	2.1 U	2 U	5.1 U	5.1 U	2.1 U	5.8 U	2.1 U	2.4 U	0.22 U	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	2.9 U	2.9 U	10.1 U	*	2.9 U	11.6 U	2.9 U	3.3 U	0.3 U	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	4.8 U	4.6 U	5.1 U	5.1 U	4.7 U	5.8 U	4.7 U	5.4 U	0.48 U	N/A	N/A	N/A
	Naphthalene	13	ug/L	2.4 U	2.3 U	2.5 U	*	2.4 U	2.9 U	2.4 U	2.7 U	1.7	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	4.8 U	4.7 U	5.1 U	5.1 U	4.8 U	5.8 U	4.8 U	5.5 U	0.49 U	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	2.9 U	2.8 U	25.3 U	*	2.9 U	29.1 U	2.9 U	3.3 U	0.29 U	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	2.3 U	2.3 U	5.1 U	5.1 U	2.3 U	5.8 U	2.3 U	2.7 U	0.24 U	N/A	N/A	N/A
	Phenol	180	ug/L	2.7 U	2.6 U	5.1 U	5.1 U	2.7 U	5.8 U	2.7 U	3.1 U	0.27 U	N/A	N/A	N/A
	Pyrene	0.3	ug/L	2.8 U	2.8 U	5.1 U</b									

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW24															
Method	Analyte	Screening Value	Units	July 27, 2014 Field Sample	July 28, 2014 Field Sample	July 31, 2014 Field Sample	August 3, 2014 Field Sample	Field Duplicate	August 6, 2014 Field Sample	August 9, 2014 Field Sample	August 12, 2014 Field Sample	August 15, 2014 Field Sample	August 18, 2014 Field Sample	August 21, 2014 Field Sample	August 24, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h)Perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(fluoranthene)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]Perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.895 U	0.867 U	1.72 U	1.72 U	1.7 U	0.867 U	0.904 U	0.876 U	0.859 U	0.876 U	0.895 U	0.850 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(fluoranthene)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h)Perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(fluoranthene)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog[a]anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24											
				August 27, 2014		August 30, 2014		August 31, 2014		September 2, 2014		September 5, 2014		September 8, 2014	
				Field Sample	N/A	Field Sample	N/A	Field Sample	Field Duplicate	Field Sample	N/A	Field Sample	N/A	Field Sample	N/A
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	Null	ug/L	0.895 U	0.85 U	0.895 UU	0.944 UJ	0.924 UJ	0.924 U	0.85 U	0.85 U	1.7 U	0.867 U	0.867 U	0.904 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24											
				September 26, 2014 Field Sample	September 29, 2014 Field Sample	October 2, 2014 Field Sample	October 5, 2014 Field Sample	October 8, 2014 Field Sample	October 11, 2014 Field Sample	October 14, 2014 Field Sample	October 15, 2014 Field Sample	October 18, 2014 Field Sample	October 21, 2014 Field Sample	October 24, 2014 Field Sample	October 27, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Chloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(k)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7 U	1.7 U	1.7 U	0.955 U	0.924 U	1.7 U	0.85 U
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(fluoranthene)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

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color

Detection

Exceedance

No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

Method	Analyte	Screening Value	Units	SW25										SW25									
				July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014 Field Sample	July 23, 2014 Field Sample	July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample								
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	0.18 U	0.18 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	0.23 U	0.23 U	0.23 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	0.15 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Vinyl chloride	Null	ug/L	0.13 U	0.13 U	0.13 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylene (Total)	27	ug/L	0.31 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
	1-Methylnaphthalene	2.1	ug/L	0.53 U	0.26 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	1,2-Dichlorobenzene	Null	ug/L	0.56 U	0.28 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	0.63 U	0.31 U	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	0.6 U	0.3 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	0.64 U	0.32 U	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	0.53 U	0.26 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2'-Biphenol	Null	ug/L	0.49 U	0.25 U	0.22 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol	330	ug/L	0.61 U	0.3 U	0.29 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methoxyphenol(o-Cresol)	67	ug/L	0.59 U	0.29 U	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	0.63 U	0.31 U	0.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	0.59 U	0.29 U	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2'-oxybis[1-chloropropane]	Null	ug/L	0.5 U	0.25 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	0.55 U	0.27 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	0.72 U	0.36 U	0.34 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	2.2 U	1.1 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	0.53 U	0.26 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	0.88 U	0.44 U	0.42 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/L	0.55 U	0.27 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,6-Dinitrotoluene	61	ug/L	0.57 U	0.28 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Nitroaniline	Null	ug/L	0.98 U	0.49 U	0.47 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	0.69 U	0.34 U	0.33 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	384-Methylphenol(m&p Cresol)	Null	ug/L	1.6 U	0.77 U	0.74 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	0.59 U	0.29 U	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	0.52 U	0.26 U	0.25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	0.31 U	0.15 U	0.15 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	0.5 U	0.25 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	0.96 U	0.48 U	0.46 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	0.86 U	0.43 U	0.41 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	0.57 U	0.28 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	0.58 U	0.29 U	0.28 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	0.46 U	0.22 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	0.51 U	0.25 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	0.56 U	0.28 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aldrin	0.035	ug/L	0.49 U	0.22 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aldazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Azobenzene	Null	ug/L	0.55 U	0.27 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Benzol(b)fluoranthene	Null	ug/L	0.43 U	0.21 U	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(g,h)perylene	7.64	ug/L	0.87 U	0.43 U	0.41 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(j)fluoranthene	Null	ug/L	0.56 U	0.28 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(a)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Benzol(j)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
EPA 8270	Aldrin	0.035	ug/L	0.49 U	0.22 U	0.21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aldazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Azobenzene	Null	ug/L	0.55 U	0.27 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Benzol(b)fluoranthene	Null	ug/L	0.43 U	0.21 U	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(g,h)perylene	7.64	ug/L	0.87 U	0.43 U	0.41 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(j)fluoranthene	Null	ug/L	0.56 U	0.28 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(a)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Benzol(j)pyrene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	TTPG	350	ug/L	N/A	1.72 U	0.85 U	0.85 U	0.867 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	0.859 U	
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Phenanthrene	3.6	ug/L	0.51 U	0.25 U	0.24 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	0.58 U	0.29 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L																				

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits
N/A - Sample rejected if the sample is off TIC, the

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceeded
█ No Detect

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25T											
				August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1'-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m,p-Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m,p-Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]perylene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodiphenylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	0.85 U	ug/L	0.85 U	ug/L	0.859 U	ug/L	0.85 U	ug/L	0.858 U	ug/L	0.876 U	ug/L	0.876 U	ug/L
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylenne	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j,l)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j,l)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25T			SW26			Williams SW	
				October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	September 20, 2014 Field Sample	August 18, 2014 Field Sample	August 25, 2014 Field Sample	
EPA 8260	trans-1,2-Dichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichloroethene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Trichlorofluoromethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Xylenes (Total)	27	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Methylnaphthalene	2.1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Biphenyl	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chloronaphthalene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(m&p Cresol)	67	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-oxibis[1-chloropropane]	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,6-Dinitrotoluene	81	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,8-Methylphenol(m&p Cresol)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Bromophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitroaniline	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Atrazine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Azobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzaldehyde	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzofluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzyl alcohol	8.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) methane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl) ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Caprolactam	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbazole	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-j]pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Methylphenol, 3 & 4	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	180	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC	TTPC	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	330	ug/L	N/A	N/A	N/A	N/A	0.85 U	N/A	0.850 U	N/A
	Acenaphthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	4840	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	0.035	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(h,j)perylene	7.64	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(k)fluoranthene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzog(j)anthracene	0.025	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MA-EPH	Benzog(j)perylene	0.014	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
■ Detection
■ Exceedance
■ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	GP08				GP23				GP24				GP26			
				July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 24, 2014 Field Sample	August 14, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 14, 2014 Field Sample	July 20, 2014 Field Sample		
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	N/A	N/A	N/A	10000 U	N/A	10000 U	N/A	10000 U	N/A	10000 U	N/A	10000 U	N/A		
	Chloride	230000	ug/L	51800	51400	N/A	49100	20700	22400	30600	29300	N/A	21000	20800	N/A	N/A			
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Nitrate as N	10000	ug/L	200	N/A	N/A	N/A	40 U	N/A	49 U	N/A	N/A	49 U	N/A	N/A	N/A	N/A		
	Nitrite as N	Null	ug/L	22	N/A	N/A	N/A	33	N/A	26	N/A	N/A	28	N/A	N/A	N/A	N/A		
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
SM 4500-SO3 B	Sulfite	Null	ug/L	2000 U	N/A	N/A	N/A	2000 U	N/A	2000 U	N/A	2000 U	N/A	2000 U	N/A	2000 U	N/A		

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N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	GP28		PD01		PD02						PD03	
				July 14, 2014 Field Sample	July 20, 2014 Field Sample	July 3, 2014 Field Sample	July 3, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	59 U	N/A	58 U	N/A						
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	59 U	N/A	58 U	N/A						
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	50 U	N/A	50 U	N/A						
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	66 J	N/A	58 U	N/A						
	Chrysene	Null	ug/L	N/A	N/A	2.9 U	N/A	2.9 U	N/A						
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	2.0 U	N/A	2.0 U	N/A						
	Fluoranthene	1.9	ug/L	N/A	N/A	2.9 U	N/A	2.9 U	N/A						
	Fluorene	Null	ug/L	N/A	N/A	2.9 U	N/A	2.9 U	N/A						
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	2.9 U	N/A	2.9 U	N/A						
	Naphthalene	13	ug/L	N/A	N/A	2.9 U	N/A	2.9 U	N/A						
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	2.9 U	N/A	2.9 U	N/A						
	Pyrene	0.3	ug/L	N/A	N/A	2.9 U	N/A	2.9 U	N/A						
	Alkalinity	Null	ug/L	N/A	N/A	376000	N/A								
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	410 U	N/A	410 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	428000	N/A	N/A	N/A	29400	29300	29500	30000	30300 J	30000	32800	
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	2.9 U	N/A					
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	2.9 U	N/A					
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	220	230	180	160	210	170	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	1.5 U	1.8 U	N/A				
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	21 U	50 U					
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	470 U	N/A	470 U	760 U	50 U					
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	25 U						
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	July 11, 2014			July 12, 2014			July 13, 2014			July 14, 2014			July 15, 2014			July 16, 2014			July 17, 2014			July 18, 2014			July 19, 2014			July 20, 2014			PD03		
				Field Sample			Field Sample			Field Sample			Field Duplicate			Field Sample			Field Sample																	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	C11-C22 Aromatics	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	C19-C36 Aliphatics	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Chrysene	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Dibenz(a,h)anthracene	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Fluoranthene	1.9	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Fluorene	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Naphthalene	13	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
SM 2320B	Phenanthrene	3.6	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Pyrene	0.3	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Alkalinity	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	1000 U			1000 U			1000 U			1000 U			1000 U			1000 U			10000 U			10000 U			10000 U			10000 U			10000 U		
	Chloride	230000	ug/L	32400			32300			32600			29400			29200			32500			31000			31000			31600			30400			31700 J		
	Cyanide	Null	ug/L	N/A			N/A			2.9 U			2.9 UJ			N/A			2.9 U			2.9 U			2.9 U			N/A			N/A			N/A		
	5.2	ug/L	N/A	N/A			N/A			2.0 U			2.0 UJ			N/A			2.0 U			2.0 U			2.0 U			N/A			N/A			N/A		
	Nitrate as N	10000	ug/L	N/A			N/A			200			180			N/A			150			200			230			N/A			N/A			N/A		
	Nitrite as N	Null	ug/L	N/A			N/A			1.8 U			1.8 U			N/A			1.8 U			1.8 U			1.8 U			N/A			N/A			N/A		
	Phosphorus	10	ug/L	50 U			50 U			50 U			21 U			21 U			50 U			21 U			21 U			21 U			N/A			N/A		
SM 4500-SO3 B	Sulfide	Null	ug/L	50 UJ			50 UJ			50 UJ			760 U			760 U			50 UJ			1400			760 U			2200			N/A			N/A		
	Thiocyanate	Null	ug/L	25 U			25 U			25 U			25 U			25 U			25 U			25 U			25 U			N/A			N/A			N/A		
	Sulfite	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		

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color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	July 2014				August 2014				PD03			
				Field Sample	Field Duplicate	Field Sample									
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	32300	33100	30200	30200	31600	30900	30300	23000	27000	28500	29000	29400
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PPD3											
				August 24, 2014 Field Sample	August 27, 2014 Field Sample	August 30, 2014 Field Sample	August 31, 2014 Field Sample	September 2, 2014 Field Sample	September 5, 2014 Field Sample	September 8, 2014 Field Sample	September 11, 2014 Field Sample	September 14, 2014 Field Sample	September 17, 2014 Field Sample	September 20, 2014 Field Sample	September 23, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	28100	31300	29500	7800	25300	30400	29500	32400	133000	31000	33800	34100
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PPD3											
				September 26, 2014 Field Sample	September 29, 2014 Field Sample	October 2, 2014 Field Sample	October 5, 2014 Field Sample	October 8, 2014 Field Sample	October 11, 2014 Field Sample	October 14, 2014 Field Sample	October 15, 2014 Field Sample	October 18, 2014 Field Sample	October 21, 2014 Field Sample	October 24, 2014 Field Sample	October 27, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	31900	34600	31900	30700	30600	31400	32800	33800	34300	33300	32600	32600 J
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD03					PD04					PD05					PD06				
				October 30, 2014 Field Sample	November 2, 2014 Field Sample	November 5, 2014 Field Sample	November 8, 2014 Field Sample	November 11, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 4, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample						
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	86000	N/A	N/A												
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	10000	N/A	N/A	N/A											
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	9700	N/A	N/A	N/A											
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	11000	N/A	N/A	N/A											
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	410 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U		
	Chloride	230000	ug/L	34300	33100	32900	33000	33000	N/A	137000	21600	304000	271000	253000	253000	239000	239000	239000	239000	239000	239000	239000	
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U										
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U										
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49 U	49 U	49 U										
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61	46	1.8 U	1.8 U	1.8 U								
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1000	400	21 U	21 U	21 U								
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	15000	1400	1000	760 U	760 U	760 U								
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	July 8, 2014			July 9, 2014			July 12, 2014			July 13, 2014			July 14, 2014			July 15, 2014			July 16, 2014		July 17, 2014		July 18, 2014		July 19, 2014		July 22, 2014		PD07
				Field Sample			Field Sample			Field Sample			Field Sample			Field Sample			Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample			
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	C11-C22 Aromatics	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	C19-C36 Aliphatics	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Chrysene	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Dibenz(a,h)anthracene	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Fluoranthene	1.9	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Fluorene	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Naphthalene	13	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
SM 2320B	Phenanthrene	3.6	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Pyrene	0.3	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Alkalinity	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U			10000 U			1000 U			10000 U			1000 U			10000 U			10000 U			10000 U			10000 U				
	Chloride	230000	ug/L	*			212000			192000			33700			155000			247000			178000			182000			172000				
	Cyanide	Null	ug/L	2.9 U			2.9 U			N/A			2.9 UJ			N/A			2.9 U			30			2.9 U			2.9 U				
		5.2	ug/L	2.9 U			2.9 U			N/A			2.9 UJ			N/A			2.9 U			30			2.9 U			2.9 U				
	Nitrate as N	10000	ug/L	49 U			49 U			N/A			620			N/A			49 U			49 U			49 U			49 U				
	Nitrite as N	Null	ug/L	1.8 U			1.8 U			N/A			1.8 U			N/A			1.8 U			1.8 U			1.8 U			1.8 U				
	Phosphorus	10	ug/L	21 U			21 U			50 U			50 U			35			50 U			21 U			21 U			21 U				
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U			760 UJ			50 UJ			760 U			50 UJ			1400			1200			760 U			760 U				
	Thiocyanate	Null	ug/L	25 U			25 U			25 U			25 U			25 U			25 U			25 U			25 U			25 U				
	Sulfite	Null	ug/L	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A				

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	July 25, 2014		July 27, 2014		July 28, 2014		July 31, 2014		August 3, 2014		August 6, 2014		August 9, 2014		August 12, 2014		August 15, 2014		August 18, 2014		PD07
				Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample						
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	186000 J	176000 J	188000	253000	253000	299000	231000	206000	191000	179000	207000	207000	190000	190000	190000	190000	190000	190000	190000	190000	190000
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD07											
				August 21, 2014 Field Sample	August 24, 2014 Field Sample	August 27, 2014 Field Sample	August 30, 2014 Field Sample	August 31, 2014 Field Sample	September 2, 2014 Field Sample	September 5, 2014 Field Sample	September 8, 2014 Field Sample	September 11, 2014 Field Sample	September 14, 2014 Field Sample	September 17, 2014 Field Sample	September 20, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	170000	249000	241000	96800	108000	116000	162000	130000	148000	4000	136000	142000
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PP07								October 14, 2014		October 15, 2014	October 18, 2014	October 21, 2014
				September 23, 2014 Field Sample	September 26, 2014 Field Sample	September 29, 2014 Field Sample	October 2, 2014 Field Sample	October 5, 2014 Field Sample	October 8, 2014 Field Sample	October 11, 2014 Field Sample	Field Duplicate	Field Sample	Field Sample			
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	139000	135000	135000	131000	132000	85600	88700	147000	151000	113000	153000	125000	
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD07							PD08		PD09		PD10		PW05		SW01	
				October 24, 2014 Field Sample	October 27, 2014 Field Sample	October 30, 2014 Field Sample	November 2, 2014 Field Sample	November 5, 2014 Field Sample	November 8, 2014 Field Sample	November 11, 2014 Field Sample	July 5, 2014 Field Sample	July 5, 2014 Field Sample	July 8, 2014 Field Sample	June 29, 2014 Field Sample	June 28, 2014 Field Sample	June 29, 2014 Field Sample	June 28, 2014 Field Sample			
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	10000 U	10000 U	10000 U	10000 U	10000 U								
	Chloride	230000	ug/L	140000	136000 J	134000	119000	125000	119000	129000	37700	1250000	257000 J	14400	14400	15200	15200	15200		
	Cyanide	Null	ug/L	N/A	2.9 U	2.9 U	2.0 U	2.0 U	N/A	N/A	N/A	N/A								
	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.6 U	2.6 U	2.6 U	2.6 U	N/A	N/A	N/A	N/A		
	Nitrate as N	10000	ug/L	N/A	49 U	49 U	600	600	N/A	N/A	130	130								
	Nitrite as N	Null	ug/L	N/A	1.8 U	14	69	69	N/A	N/A	35 J	35 J								
	Phosphorus	10	ug/L	N/A	21 U	170	330	330	170	170	70	70								
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	760 U	760 U	760 U	760 U	N/A	N/A	N/A	N/A								
	Thiocyanate	Null	ug/L	N/A	25 U	25 U	25 U	25 U	N/A	N/A	N/A	N/A								
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW02		SW03		SW04			
				June 29, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	August 31, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	July 2, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	10000 U	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	748000	1310000	392000	38700	83900	33100	24400	20100
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	2.0 U	2.9 U	2.9 U
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U
	Nitrate as N	10000	ug/L	160	N/A	N/A	N/A	N/A	49 U	49 U	140
	Nitrite as N	Null	ug/L	63 J	N/A	N/A	N/A	N/A	1.8 U	1.8 U	1.8 U
	Phosphorus	10	ug/L	350	200	260	N/A	61	N/A	21 U	21 U
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	760 U	760 U	760 U
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	25 U	25 U	25 U
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25 U
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04												
				July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	10000 U	10000 U	10000 U	10000 U	1000 U	1000 U	1000 U	1000 U	10000 U	1000 U	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	16200	15600	16900 J	10700	12500	13300	14100	10800	11400	11000	11000	10900	10900
	Cyanide	Null	ug/L	2.9 U	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	2.9 U	N/A	2.9 U	2.9 U	2.9 U	2.9 U
	Cyanide	5.2	ug/L	2.9 U	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	2.9 U	N/A	2.9 U	2.9 U	2.9 U	2.9 U
	Nitrate as N	10000	ug/L	49 U	49 U	49 U	49 U	N/A	N/A	N/A	150	N/A	49 U	49 U	49 U	49 U
	Nitrite as N	Null	ug/L	1.8 U	1.8 U	1.8 U	1.8 U	N/A	N/A	N/A	1.8 U	N/A	1.8 U	1.8 U	1.8 U	1.8 U
	Phosphorus	10	ug/L	36	21 U	21 U	21 U	50 U	50 U	50 U	50 U	33	50 U	21 U	21 U	21 U
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	760 U	760 U	760 U	50 U	50 U	50 U	50 U	760 U	50 U	1800	760 U	760 U
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U				
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW04

Method	Analyte	Screening Value	Units	July 18, 2014 Field Sample	July 21, 2014 Field Sample	July 24, 2014 Field Sample	July 27, 2014 Field Sample	July 30, 2014 Field Sample	August 2, 2014 Field Sample	August 5, 2014 Field Sample	August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	10000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	230000	11000	9000	10100	8800	8300	8500	8600	6900	7700	7500	7100
	Chloride	230000	ug/L	230000	11000	9000	10100	8800	8300	8500	8600	6900	7700	7500	7100
	Cyanide	Null	ug/L	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04											
				August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	September 7, 2014 Field Sample	September 7, 2014 Field Duplicate	September 10, 2014 Field Sample	September 13, 2014 Field Sample	September 16, 2014 Field Sample	September 19, 2014 Field Sample	September 22, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	4700	4900	5100	5000	5800	5800	5300	5600	6000	6900	6900	5700
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04											
				September 25, 2014 Field Sample	September 26, 2014 Field Sample	October 1, 2014 Field Sample	October 1, 2014 Field Duplicate	October 4, 2014 Field Sample	October 7, 2014 Field Sample	October 10, 2014 Field Sample	October 13, 2014 Field Sample	October 17, 2014 Field Sample	October 20, 2014 Field Sample	October 23, 2014 Field Sample	October 26, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	6000	5900	J	5800	6100	6300	5700	8700	7700	7900	7200	7900
SM 4500	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW04				SW06			
				October 29, 2014		November 1, 2014		November 4, 2014		November 7, 2014	
				Field Sample	Field Duplicate						
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	7600	7600	7500	8600	8400	9800	8400	296000
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30000
	Nitrate	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	140
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	160
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17
											58 J

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW06

Method	Analyte	Screening Value	Units	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A								
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A								
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A								
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A								
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A								
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A								
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A								
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A								
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A								
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A								
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A								
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A								
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A								
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	10000 U	10000 U	10000 U	10000 U	10000 U								
	Chloride	230000	ug/L	17500	15900	42800 J	16600	14600	12600 J	12100	14000	14100	14400	14200	9500	
	Cyanide	Null	ug/L	2.9 U	N/A	N/A	N/A	2.9 UU								
	Nitrate	5.2	ug/L	2.3 U	N/A	N/A	N/A	2.3 UU								
	Nitrate as N	10000	ug/L	260	170	49 U	120	40 U	180	110	N/A	N/A	N/A	N/A	190	20 J
	Nitrite as N	Null	ug/L	14	15	1.8 U	14	11	16	18	N/A	N/A	N/A	N/A	130	130
	Phosphorus	10	ug/L	76	66	57	94	66 J	73	130	50 U	760 U				
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	1000	760 U	760 U	760 U	760 U	760 UU	50 U	50 UU	50 U	50 UU	50 U	760 U
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U	25 U	25 U							
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A							

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	July 15, 2014				July 16, 2014				July 17, 2014				July 18, 2014				July 20, 2014		July 23, 2014		July 26, 2014		July 29, 2014		August 1, 2014		August 4, 2014		August 7, 2014						
				Field Sample				Field Sample				Field Sample				Field Sample				Field Duplicate		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample						
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	C11-C22 Aromatics	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	C19-C36 Aliphatics	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Chrysene	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Dibenz(a,h)anthracene	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Fluoranthene	1.9	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Fluorene	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Naphthalene	13	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
SM 2320B	Phenanthrene	3.6	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Pyrene	0.3	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Alkalinity	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A																		
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	1000 U				10000 U				10000 U				10000 U				N/A		N/A		N/A		N/A		N/A		N/A		N/A						
	Chloride	230000	ug/L	10500				10200				10900				11800				8900		9200		9200 J		10800 J		8900		8700		8400		9400				
	Cyanide	Null	ug/L	N/A				2.9 U				2.9 U				2.9 U				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Cyanide	5.2	ug/L	N/A				5.2 U				5.2 U				5.2 U				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Nitrate as N	10000	ug/L	N/A				120				150				120				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Nitrite as N	Null	ug/L	N/A				13				14				17				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Phosphorus	10	ug/L	150				150				83				88				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		
SM 4500-SO3 B	Sulfide	Null	ug/L	50 U				3200				760 U				760 U				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		
	Thiocyanate	Null	ug/L	25 U				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A												
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A														

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

				SW06											
Method	Analyte	Screening Value	Units	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A							
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A							
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A							
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A							
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A							
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Chloride	230000	ug/L	8900	9600	8800	8400	6900	8500	7400	7300	6400	7000	6800	6300
SM 4500	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A							
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A							
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A							
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A							

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW06											
				September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	October 1, 2014 Field Sample	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	6400	6600	7200	6500	6300	6500	6500	7900	34400	9900	8700	8600
SM 4500	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW06							SW07						
				October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	June 29, 2014 Field Sample	July 1, 2014 Field Sample	July 3, 2014 Field Sample	July 3, 2014 Field Duplicate	July 4, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 5, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	
	Chloride	230000	ug/L	8200	8000	7800	8300	7700	8200	24200	17100	17500	17200	18200	18200	18200	
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	350	660	600	760	700	700	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	11	13	12	15	15	
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66	91 J	46	34	21 U	37	
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	760 U	760 U	760 U	760 U	760 U	760 U	
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25 U	25 U	25 U	25 U	25 U	25 U	
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW07												SW08	
				July 6, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample		
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	10000 U	1000 U	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	18700	20000	22400	21600	19700	21300	23100	28500	28100	18800	16300			
	Cyanide	Null	ug/L	2.9 U	N/A	N/A	N/A	N/A	N/A	2.9 U	N/A	2.9 U	2.9 U	N/A	N/A	N/A	N/A
		5.2	ug/L	2.3 U	N/A	N/A	N/A	N/A	N/A	2.0 U	N/A	2.0 U	2.0 U	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	800	N/A	N/A	N/A	N/A	N/A	610	N/A	710	810	810	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	13	N/A	N/A	N/A	N/A	N/A	1.8 U	N/A	12	13	16	N/A	N/A	N/A
	Phosphorus	10	ug/L	43	50 U	37	50 U	21 U	42	41	67	N/A	N/A				
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	50 U	50 U	50 U	50 U	760 U	50 U	760 U	1400	760 U	1400	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	N/A	N/A
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW08												
				July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A										
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A										
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A										
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A										
	Chrysene	Null	ug/L	N/A	N/A	N/A										
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A										
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A										
	Fluorene	Null	ug/L	N/A	N/A	N/A										
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A										
	Naphthalene	13	ug/L	N/A	N/A	N/A										
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A										
	Pyrene	0.3	ug/L	N/A	N/A	N/A										
	Alkalinity	Null	ug/L	N/A	N/A	N/A										
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	1000 U	1000 U										
	Chloride	230000	ug/L	22500	19400	17600	20000	18400	19400	20300	20200 J	18600	20800	22800	22700	
	Cyanide	Null	ug/L	2.9 U	N/A	N/A										
	Nitrate	5.2	ug/L	2.3 U	N/A	N/A										
	Nitrate as N	10000	ug/L	330	460	500	430	670	580	500	480	620	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	24	24	19	18	16	12	42	19	18	N/A	N/A	N/A	
	Phosphorus	10	ug/L	40 J	74	39	96	45	49	270 J	79	76	130	100	50 U	
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	50 U	50 U										
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U									
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A									

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW08

Method	Analyte	Screening Value	Units	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 21, 2014 Field Sample	July 24, 2014 Field Sample	July 27, 2014 Field Sample	July 30, 2014 Field Sample	August 2, 2014 Field Sample	August 5, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A										
	C11-C22 Aromatics	Null	ug/L	N/A	N/A										
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A										
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A										
	Chrysene	Null	ug/L	N/A	N/A										
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A										
	Fluoranthene	1.9	ug/L	N/A	N/A										
	Fluorene	Null	ug/L	N/A	N/A										
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A										
	Naphthalene	13	ug/L	N/A	N/A										
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A										
	Pyrene	0.3	ug/L	N/A	N/A										
	Alkalinity	Null	ug/L	N/A	N/A										
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	1000 U	10000 U	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	21900	20100	21300	22800	27700	28800	26600	30400	30600	7200	22900	41800
	Cyanide	Null	ug/L	N/A	2.9 UU	N/A	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate	5.2	ug/L	N/A	2.9 UU	N/A	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	540	N/A	720	720	750	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	17 J	N/A	14	17	17	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	120	91	50 U	21 U	40	36	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	50 UU	760 U	50 UU	760 U	760 U	760 U	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	25 U	N/A	N/A	N/A	N/A	N/A	N/A					
	Sulfite	Null	ug/L	N/A	N/A										

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW08											
				August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 11, 2014 Field Duplicate	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample	August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	September 4, 2014 Field Duplicate
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	34600	32700	33400	30700	28600	32200	23500	24400	28200	27100	23800	22700
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW08								N/A	N/A		
				September 7, 2014 Field Sample	September 10, 2014 Field Sample	September 13, 2014 Field Sample	September 16, 2014 Field Sample	September 19, 2014 Field Sample	September 19, 2014 Field Duplicate	September 22, 2014 Field Sample	September 25, 2014 Field Sample	September 28, 2014 Field Sample	October 1, 2014 Field Sample	October 4, 2014 Field Sample	October 7, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	26000	30700	34400	41900	38000	37800	39000	39900	51700 J	40900	37600	39300
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW08											
				October 10, 2014 Field Sample	October 13, 2014 Field Sample	October 17, 2014 Field Sample	October 17, 2014 Field Duplicate	October 20, 2014 Field Sample	October 23, 2014 Field Sample	October 26, 2014 Field Sample	October 29, 2014 Field Sample	November 1, 2014 Field Sample	November 4, 2014 Field Sample	November 7, 2014 Field Sample	November 10, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	43000	39400	39700	40100	39400	34300	30200	25700	27200	23900	26700	44800
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW09							SW10						
				July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	June 29, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	July 2, 2014 Field Sample			
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A									
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A									
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A									
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A									
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A									
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A									
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A									
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A									
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A									
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A									
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A									
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A									
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A									
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	1000 U	1000 U	10000 U	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	
	Chloride	230000	ug/L	22800	21200	19400	21200	22200	26900	26700	30200	24800	24100	22700	21600		
	Cyanide	Null	ug/L	N/A	N/A	2.9 U	N/A	N/A	N/A	2.9 U							
	Cyanide	5.2	ug/L	N/A	N/A	2.9 U	N/A	N/A	N/A	2.9 U							
	Nitrate as N	10000	ug/L	N/A	N/A	510	N/A	650	620	650	620	N/A	N/A	N/A	N/A	620	
	Nitrite as N	Null	ug/L	N/A	N/A	11 J	N/A	12	11	11	12	N/A	N/A	N/A	N/A	22	
	Phosphorus	10	ug/L	50 U	50 U	43	50 U	34	33	34	37	81	N/A	N/A	N/A	180	
SM 4500-SO3 B	Sulfide	Null	ug/L	50 UJ	50 UJ	760 U	50 UJ	760 U	N/A	N/A	N/A	760 U					
	Thiocyanate	Null	ug/L	25 U	N/A	N/A	N/A	25 U									
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A									

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW10											
				July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 6, 2014 Field Duplicate	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U				
	Chloride	230000	ug/L	21800	24600	23400	25000	24400	27300	25300	32000	28600	28100	25000	25900
	Cyanide	Null	ug/L	2.9 U	N/A	N/A	N/A	N/A	2.9 U	N/A	2.9 U				
	Cyanide	5.2	ug/L	2.3 U	N/A	N/A	N/A	N/A	2.3 U	N/A	2.3 U				
	Nitrate as N	10000	ug/L	670	680	820	640	640	N/A	N/A	N/A	N/A	590	N/A	730
	Nitrite as N	Null	ug/L	16	16	16	16	16	N/A	N/A	N/A	N/A	16 J	N/A	21
	Phosphorus	10	ug/L	85	110	51	67	36	50 U	50 U	50 U	50 U	140	62	50 U
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	50 U	50 UJ	50 UJ	50 UJ	760 U	50 UJ	760 U				
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U				
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW10		SW11		SW12		SW14	
				July 17, 2014 Field Sample	July 18, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	June 30, 2014 Field Sample	July 1, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Duplicate
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	10000 U	N/A	10000 U	N/A	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	28500	35600	4800	4500	7200	6900	7300	7400
	Cyanide	Null	ug/L	2.9 U	2.9 U	N/A	N/A	2.9 U	2.9 U	2.9 U	2.9 U
	Nitrate	5.2	ug/L	2.3 U	2.3 U	N/A	2.3 U	N/A	2.3 U	2.3 U	2.3 U
	Nitrate as N	10000	ug/L	710	760	N/A	250	N/A	150	190	160
	Nitrite as N	Null	ug/L	12	16	N/A	11	N/A	1.8 U	1.8 U	1.8 U
	Phosphorus	10	ug/L	33	35	N/A	34 J	N/A	21 U	21 U	80
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	760 U	N/A	760 U	N/A	760 U	760 U	760 U
	Thiocyanate	Null	ug/L	25 U	25 U	N/A	25 U	N/A	25 U	25 U	25 U
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
 - Detection
 - Exceedance
 - No Detection

Water Sampling Results (Method Target Compounds)

Water Sampling Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	June 30, 2014				SW16				July 12, 2014									
				Field Sample	Field Duplicate	July 1, 2014	Field Sample	July 2, 2014	Field Sample	July 3, 2014	Field Sample	July 4, 2014	Field Sample	July 5, 2014	Field Sample	July 6, 2014	Field Sample	July 10, 2014	Field Sample	Field Sample	Field Duplicate
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U				
	Chloride	230000	ug/L	23300	23500	29900	28300	27700	28800	26000	26200	23200	28800	33200	34700						
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	720	640	620	750	610	50 U	100	50 U	50 U	50 U	50 U	50 U	50 U	50 U
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	15	13	16	15	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	89	70	N/A	N/A	55	54	120	43	58	43	50 U	100	50 U	50 U	50 U	50 U	50 U	50 U
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U				
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW16							SW17						
				July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	Field Duplicate	July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample		
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	1000 U	10000 U	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	
	Chloride	230000	ug/L	34600	24000	26700	28600	32600	33400	159000	137000	109000	93700	93700	84100		
	Cyanide	Null	ug/L	N/A	2.9 U	N/A	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U		
	Cyanide	5.2	ug/L	N/A	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U						
	Nitrate as N	10000	ug/L	N/A	570	N/A	770	600	680	630	49 U						
	Nitrite as N	Null	ug/L	N/A	22 J	N/A	16	12	14	14	1.8 U						
	Phosphorus	10	ug/L	50 U	110	50 U	53	38	34	30	120 J	110	71	50	60		
SM 4500-SO3 B	Sulfide	Null	ug/L	50 UJ	760 U	50 UJ	1000	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U		
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U							
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW17

Method	Analyte	Screening Value	Units	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	10000 U	10000 U	10000 U	1000 U	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	10000 U	
	Chloride	230000	ug/L	76900	67900	64600 J	48800	55900	54800	54200	51800	32700	33900	34600	36100	
	Cyanide	Null	ug/L	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U	2.9 U	
	Nitrate	5.2	ug/L	2.9 U	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U	2.9 U	
	Nitrate as N	10000	ug/L	49 U	49 U	49 U	49 U	N/A	N/A	N/A	N/A	49 U	49 U	49 U	49 U	
	Nitrite as N	Null	ug/L	1.8 U	1.8 U	1.8 U	1.8 U	N/A	N/A	N/A	N/A	1.8 U	1.8 U	1.8 U	1.8 U	
	Phosphorus	10	ug/L	51	70 J	79	69	50 U	50 U	110	110	120	130	100	120	
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	760 U	760 U	760 U	50 U	50 U	50 UJ	50 UJ	50 UJ	50 UJ	1200	760 U	760 U
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U				
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW17											
				July 20, 2014 Field Sample	July 23, 2014 Field Sample	July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	20600	25000 J	27500 J	14200	16900	17600	18600	19800	12900	14400	15000	8000
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW17											
				August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	September 30, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	10800	10100	6600	7000	8000	8000	7900	8200	8400	8800	8600	9700
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW17											
				October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	8800	8600	8600	12400	8800	8600	8300	9000	8200	8100	8000	7100
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW17		SW17D		SW17U		July 1, 2014		July 2, 2014		July 3, 2014		July 4, 2014		July 5, 2014		July 6, 2014		July 7, 2014		July 8, 2014	
				November 9, 2014 Field Sample	July 10, 2014 Field Sample	July 10, 2014 Field Sample	July 10, 2014 Field Sample	July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample		
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	1000 U	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U		
	Chloride	230000	ug/L	8000	53100	53700	183000	154000	127000	117000	107000	93100	84600	87500	80000 J	2.9 U	2.9 U								
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	2.9 U																
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	2.9 U																
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	49 U																
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	1.8 U																
	Phosphorus	10	ug/L	N/A	110	50 U	140 J	71	42	53	43	52	79 J	63 J	67	2.9 U									
	Sulfide	Null	ug/L	N/A	50 U	50 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U	760 U		
SM 4500-SO3 B	Thiocyanate	Null	ug/L	N/A	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW18												
				July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014 Field Sample	July 23, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	1000 U	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	64400	71200	70000	68500	39600	45900	46600	48000	49800	27100	33800 J		
	Cyanide	Null	ug/L	2.9 U	N/A	N/A	N/A	2.9 U	N/A	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A
	Nitrate	5.2	ug/L	2.0 U	N/A	N/A	N/A	2.0 U	N/A	2.0 U	2.0 U	2.0 U	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	49 U	U	N/A	N/A	N/A	140	N/A	130	140	140	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	1.8 U	U	N/A	N/A	N/A	23 J	N/A	57	53	35	N/A	N/A	N/A
	Phosphorus	10	ug/L	76	50 U	110	140	110	140	140	140	130	140	100	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	50 U	50 U	50 U	50 U	760 U	50 U	1800	760 U	760 U	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW18											
				July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	35600 J	17000	20800	21600	22200	23300	13300	16700	16700	8800	10400	10200
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW18											
				August 28, 2014 Field Duplicate	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	September 30, 2014 Field Sample	October 3, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	9900	6100	5900	7600	7700	7500	7800	8400	8500	8600	8800	8300
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW18											
				October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	7900	7400	9200	8400	7700	7600	7400	7500	7000	7000	6600	7000
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW19								SW20			
				July 1, 2014 Field Sample	July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	Field Duplicate	July 10, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A									
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A									
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A									
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A									
	Chrysene	Null	ug/L	N/A	N/A	N/A									
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A									
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A									
	Fluorene	Null	ug/L	N/A	N/A	N/A									
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A									
	Naphthalene	13	ug/L	N/A	N/A	N/A									
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A									
	Pyrene	0.3	ug/L	N/A	N/A	N/A									
	Alkalinity	Null	ug/L	N/A	N/A	N/A									
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	10000 U	10000 U									
	Chloride	230000	ug/L	7500	7600	53800	31700	25600	16000	27000	30700	18200 J	8800	8200	15400
	Cyanide	Null	ug/L	2.9 U	2.9 U	2.9 U									
	Nitrate	5.2	ug/L	2.3 U	2.3 U	2.3 U									
	Nitrate as N	10000	ug/L	190	210	49 U	140	140	150	49 U	49 U	49 U	160	140	N/A
	Nitrite as N	Null	ug/L	23	19	1.8 U	1.8 U	N/A							
	Phosphorus	10	ug/L	76 J	48	82	21 U	21 U	50 U						
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	760 U	50 U									
	Thiocyanate	Null	ug/L	25 U	25 U	25 U									
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A									

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- █ Detection
- █ Exceedance
- █ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20											
				July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 21, 2014 Field Sample	July 24, 2014 Field Sample	July 27, 2014 Field Sample	July 30, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A											
	C11-C22 Aromatics	Null	ug/L	N/A											
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A											
	C19-C36 Aliphatics	Null	ug/L	N/A											
	Chrysene	Null	ug/L	N/A											
	Dibenz(a,h)anthracene	Null	ug/L	N/A											
	Fluoranthene	1.9	ug/L	N/A											
	Fluorene	Null	ug/L	N/A											
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A											
	Naphthalene	13	ug/L	N/A											
SM 2320B	Phenanthrene	3.6	ug/L	N/A											
	Pyrene	0.3	ug/L	N/A											
	Alkalinity	Null	ug/L	N/A											
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U				
	Chloride	230000	ug/L	22000	20300	20000	8500	10500	20200	15100	14000	11500	12100	9700	31300
	Cyanide	Null	ug/L	N/A	N/A	N/A	2.9 U	N/A	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A
	Nitrate	5.2	ug/L	N/A	N/A	N/A	2.0 U	N/A	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	280	N/A	49 U	49 U	49 U	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	1.8 U	N/A	1.8 U	1.8 U	1.8 U	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	50 U	50 U	50 U	21 U	50 U	41	71	21 U	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	50 UJ	50 UJ	50 UJ	760 U	50 UJ	1400	760 U	1900	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	25 U	N/A	N/A	N/A	N/A							
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A											

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20											
				August 2, 2014 Field Sample	August 5, 2014 Field Sample	August 8, 2014 Field Sample	August 11, 2014 Field Sample	August 14, 2014 Field Sample	August 17, 2014 Field Sample	August 20, 2014 Field Sample	August 23, 2014 Field Sample	August 26, 2014 Field Sample	August 29, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	9100	8100	9000	8700	8000	8400	14800	4300	6400	6300	6600	6400
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20											
				September 7, 2014 Field Sample	September 10, 2014 Field Sample	September 13, 2014 Field Sample	September 13, 2014 Field Duplicate	September 16, 2014 Field Sample	September 19, 2014 Field Sample	September 22, 2014 Field Sample	September 25, 2014 Field Sample	September 25, 2014 Field Duplicate	September 28, 2014 Field Sample	October 1, 2014 Field Sample	October 4, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	6000	5700	5400	6600	7400	7900	7000	6500	6500	6800 J	8300	7700
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20								SW21							
				October 7, 2014		October 10, 2014		October 13, 2014		October 17, 2014		October 20, 2014		October 23, 2014		October 26, 2014		October 29, 2014	
				Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	7100	6800	8600	8200	8000	7800	8500	8300	8800	7500	7500	8800				
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW20							SW21						
				November 7, 2014 Field Sample	November 10, 2014 Field Sample	July 2, 2014 Field Sample	July 3, 2014 Field Sample	July 4, 2014 Field Sample	July 5, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample		
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	10000 U	10000 U	1000 U	1000 U	1000 U							
	Chloride	230000	ug/L	9500	8700	63900	53200	46200	42800	33600 J	31000	32300	31200	30200	30200	14100	
	Cyanide	Null	ug/L	N/A	N/A	2.9 U	N/A	N/A	N/A	N/A	N/A						
	Cyanide	5.2	ug/L	N/A	N/A	2.0 U	N/A	N/A	N/A	N/A	N/A						
	Nitrate as N	10000	ug/L	N/A	N/A	49 U	49 U	120	49 U	49 U	49 U	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	1.8 U	1.8 U	1.6 U	1.8 U	1.8 U	1.8 U	10	N/A	N/A	N/A	N/A	
	Phosphorus	10	ug/L	N/A	N/A	130	99	58	49	91	120	50 U	130	120	170		
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	760 U	760 U	1200	760 U	760 U	760 U	50 U	50 U	50 U	50 U	50 U	
	Thiocyanate	Null	ug/L	N/A	N/A	25 U	25 U	25 U	25 U	25 U							
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21							SW21T						
				July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014 Field Sample	July 23, 2014 Field Sample	July 23, 2014 Field Duplicate	July 26, 2014 Field Sample	July 26, 2014 Field Sample	July 29, 2014 Field Sample	July 29, 2014 Field Duplicate	August 1, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	
	Chloride	230000	ug/L	22100	23900	22400	22000	17800	17600 J	17300 J	17100 J	16300	16200	14900			
	Cyanide	Null	ug/L	2.9 UJ	N/A	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyanide	5.2	ug/L	2.9 UJ	N/A	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrate as N	10000	ug/L	49 U	N/A	49 U	49 U	49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	1.8 U	N/A	1.8 U	1.8 U	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phosphorus	10	ug/L	170	170	190	170	160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	50 UJ	1800	760 U	760 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Thiocyanate	Null	ug/L	25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A								

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- █ Detection
- █ Exceedance
- █ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21T											
				August 4, 2014 Field Sample	August 7, 2014 Field Sample	August 10, 2014 Field Sample	August 13, 2014 Field Sample	August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	14000	12800	12200	12800	11600	10400	8400	11200	9800	12800	9800	9500
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21T											
				September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample	September 24, 2014 Field Sample	September 27, 2014 Field Sample	October 1, 2014 Field Sample	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	9100	7800	8000	7600	6700	7000	7900	7600	7400	17100	17200	20400
SM 4500	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21T							SW22			SW23	
				October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample	October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	June 30, 2014 Field Sample	July 2, 2014 Field Sample	July 6, 2014 Field Sample	August 13, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A							
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A							
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A							
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A							
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A							
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A							
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	10000 U	10000 U	N/A							
	Chloride	230000	ug/L	14600	14900	13600	11700	11500	13500	11600	11700	17500	24200	7200	9200
	Cyanide	Null	ug/L	N/A	N/A	230	2.9 U	N/A							
	Cyanide	5.2	ug/L	N/A	N/A	2.6 U	2.6 U	N/A							
	Nitrate as N	10000	ug/L	N/A	N/A	600	120	N/A							
	Nitrite as N	Null	ug/L	N/A	N/A	13	21	N/A							
	Phosphorus	10	ug/L	N/A	N/A	34	72	N/A							
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	760 U	760 U	N/A							
	Thiocyanate	Null	ug/L	N/A	N/A	25 U	25 U	N/A							
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A							

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24												
				July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 19, 2014 Field Sample	July 22, 2014 Field Sample	July 25, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	10000 U	10000 U	1000 U	1000 U	10000 U	1000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	224000 J	224000	161000	*	131000	130000	126000	116000	113000	*	84500	79000 J	
	Cyanide	Null	ug/L	2.9 U	2.9 U	N/A	N/A	2.9 UU	100	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A
	Nitrate	5.2	ug/L	2.3 U	2.3 U	N/A	N/A	2.3 UU	N/A	2.3 U	2.3 U	2.3 U	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	100	49 U	N/A	N/A	49 U	N/A	49 U	49 U	49 U	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	1.8 U	1.8 U	N/A	N/A	1.8 U	N/A	1.8 U	1.8 U	1.8 U	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	21 U	21 U	120	*	21 U	120	21 U	21 U	30	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	760 UJ	50 UJ	50 UJ	760 U	50 UJ	2200	1000	1200	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	N/A	N/A	N/A	N/A
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

SW24

Method	Analyte	Screening Value	Units	July 27, 2014	July 28, 2014	July 31, 2014	August 3, 2014	Field Duplicate	August 6, 2014	Field Sample	August 9, 2014	Field Sample	August 12, 2014	Field Sample	August 15, 2014	Field Sample	August 18, 2014	Field Sample	August 21, 2014	Field Sample	August 24, 2014	Field Sample
				Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	230000	ug/L	85300	71200	69600	63500	61900	63800	61000	63400	51900	55100	54600	99600							
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24											
				August 27, 2014		August 30, 2014		August 31, 2014		September 2, 2014		September 5, 2014		September 8, 2014	
				Field Sample	N/A	Field Sample	N/A	Field Sample	N/A	Field Sample	N/A	Field Sample	N/A	Field Sample	N/A
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	64400	48500	21100	20300	19100	23500	29000	31800	3600	30400	32800	35000
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24											
				September 26, 2014 Field Sample	September 29, 2014 Field Sample	October 2, 2014 Field Sample	October 5, 2014 Field Sample	October 8, 2014 Field Sample	October 11, 2014 Field Sample	October 14, 2014 Field Sample	October 15, 2014 Field Sample	October 18, 2014 Field Sample	October 21, 2014 Field Sample	October 24, 2014 Field Sample	October 27, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	32000	34500	34400	35000	29800	29300	30700	22900	26200	27100	28400	31400 J
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24					SW25				
				October 30, 2014 Field Sample	November 2, 2014 Field Sample	November 5, 2014 Field Sample	November 8, 2014 Field Sample	November 11, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3- <i>c,d</i>)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	10000 U	10000 U	10000 U	10000 U	10000 U
	Chloride	230000	ug/L	29700	26800	30200	28700	29600	222000	228000	238000	261000	161000
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	2.9 U	N/A	N/A	N/A	2.9 U
	Nitrate	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	2.9 U	N/A	N/A	N/A	2.9 U
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	49 U	N/A	N/A	N/A	49 U
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	1.8 U	N/A	N/A	N/A	1.8 U
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	65	50 U	50 U	120	84
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	760 U	50 U	50 U	50 U	760 U
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	25 U	25 U	25 U	25 U	25 U
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25				SW25T					
				July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014 Field Sample	July 23, 2014 Field Sample	July 26, 2014 Field Sample	July 29, 2014 Field Sample	August 1, 2014 Field Sample	August 4, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A							
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A							
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A							
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A							
	Chrysene	Null	ug/L	N/A	N/A	N/A							
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A							
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A							
	Fluorene	Null	ug/L	N/A	N/A	N/A							
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A							
	Naphthalene	13	ug/L	N/A	N/A	N/A							
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A							
	Pyrene	0.3	ug/L	N/A	N/A	N/A							
	Alkalinity	Null	ug/L	N/A	N/A	N/A							
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	10000 U	10000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	203000	190000	201000	131000	132000 J	148000 J	87200	98400	93100	100000
	Cyanide	Null	ug/L	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate	5.2	ug/L	2.3 U	2.3 U	2.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	49 U	49 U	49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	1.8 U	1.8 U	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	120	63	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	760 U	760 U	760 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A							

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25											
				August 16, 2014 Field Sample	August 19, 2014 Field Sample	August 22, 2014 Field Sample	August 25, 2014 Field Sample	August 28, 2014 Field Sample	September 3, 2014 Field Sample	September 6, 2014 Field Sample	September 9, 2014 Field Sample	September 12, 2014 Field Sample	September 15, 2014 Field Sample	September 18, 2014 Field Sample	September 21, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	70300	74400	48300	44000	46500	13100	19300	28300	29200	29400	27800	30800
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25T											
				September 24, 2014 Field Sample	September 27, 2014 Field Sample	October 1, 2014 Field Sample	October 3, 2014 Field Sample	October 6, 2014 Field Sample	October 9, 2014 Field Sample	October 12, 2014 Field Sample	October 16, 2014 Field Sample	October 19, 2014 Field Sample	October 22, 2014 Field Sample	October 25, 2014 Field Sample	October 28, 2014 Field Sample
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	31600	29100	27200	27500	25800	21400	21500	18300	21300	18600	20500	20100
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500-SO3 B	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
█ Detection
█ Exceedance
█ No Detection

Water Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW25T			SW26			Williams SW	
				October 31, 2014 Field Sample	November 3, 2014 Field Sample	November 6, 2014 Field Sample	November 9, 2014 Field Sample	September 20, 2014 Field Sample	August 18, 2014 Field Sample	August 25, 2014 Field Sample	
MA-EPH	C9-C18 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C11-C22 Aromatics (Adjusted)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	C19-C36 Aliphatics	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	1.9	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	4.31	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	13	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 2320B	Phenanthrene	3.6	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	0.3	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	230000	ug/L	19200	18000	17100	17900	18100	28000 J	3800	
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyanide	5.2	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrate as N	10000	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phosphorus	10	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SM 4500-SO3 B	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfite	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	GP26				PD03				PD07						
			July 14, 2014 Field Sample	July 14, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 6, 2014 Field Sample
EPA 8260	1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,5-Cyclooctadiene, 1,5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.9 NJ	N/A	N/A	N/A
	7-Oxabicyclo[2.2.1]heptane, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	11.6 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(+)-2-Ethene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	alpha-Ethene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-2-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-3-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, methyl(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Camphene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	camphor	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexanone	ug/L	N/A	3.1 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5 NJ	22.5 NJ	N/A	N/A	N/A
	Cyclohexene, 1-methyl-4-(1-methylethyl)-, (S)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexene, 1-methyl-4-(1-methylethylene)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexene, 1-methyl-5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dodecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethane, 1-chloro-1,1-difluoro	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.3 NJ	N/A	N/A	N/A
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	L-Fenchone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3 NJ	N/A
	SULFUR DIOXIDE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrahydrofuran	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47.6 NJ	11.3 NJ	N/A	N/A	N/A
	Tridecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8 NJ	N/A	2.3 NJ	N/A
	1-Decosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Eicosanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Eicosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Heptadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Hexene, 4,5-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Nonadecanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8 NJ	N/A
	1-Nonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Octadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Pentadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Cyclohexadiol, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Cyclononadiene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene-d4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butenal, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Cyclohexen-1-ol, 2-methyl-5-(1-methylethyl), trans-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexene, 2,5,5-trimethyl-	ug/L	N/A	N/A	1.2 NJ	2.7 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methyl-2-heptene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Oxo-1-pentyl-3-isopropyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Pentene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,3-Dimethyl-2-heptene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Hexadiene, 2,5-dimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,6,10,14,18,22-Tetraacosahexaene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2H-Pyran, tetrahydro-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-(3-Pyridyl)propenoic	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Cyclohexen-1-ol, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Cyclohexen-1-ol, 1-methyl-1-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Eicosene, (E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Pentene-2-one, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.85 NJ	N/A	N/A	N/A	N/A
	3,3-Dimethyl-6-methylene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,5-Dihydroxyacetophenone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-ETHYLTOLUENE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Hydroxy-3-methylacetophenone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nonylphenol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.9 NJ	N/A
	4,9,13,17-Tetramethyl-4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5-Eicosene, (E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9-Octadecenamide, (Z)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	13-Borabicyclo[3.0.0]tridecane, 13-propoxy-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.5 NJ	N/A	N/A	N/A
	17-(1,5-Dimethylhexyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	17-(1,5-Dimethylhexyl)-xyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	17-(4-Carboxybutyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(+)-alpha-Terpineol (p)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(E)-3-Chloro-2-methyl-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Amylylenecyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethenyl-3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethenyl-4-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethyl-2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethyl-2,3-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethyl-2,4-dimethyl-	ug/L	N/A	N/A</td													

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

No Detect

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW04												SW06												
			July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample				
EPA 8260	1,3-Cyclohexadiene, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,5-Cyclooctadiene, 1,5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.6 NJ								
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	7-Oxabicyclo[2.2.1]heptane, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	(+)-2,2-diene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	alpha-pinene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Benzene, 1-methyl-2-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Benzene, 1-methyl-3-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Benzene, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Benzene, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Benzene, methyl(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Camphene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Cyclohexene, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27 NJ	27.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Cyclohexene, 1-methyl-5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27 NJ	27.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Dodecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Ethane, 1-chloro-1,1-difluoro	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	L-Farnone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.4 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	141 NJ	149 NJ	40.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.2 NJ							
	SULFUR DIOXIDE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Tetrahydrofuran	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	Tridecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Decosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Eicosanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Eicosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Heptadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Hexene, 4,5-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Nonadecanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Nonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Octadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1-Pentadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,2-Cyclohexadiol, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,2-Cyclononadiene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	1,4-Dichlorobenzene-d4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2-Butenal, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2-Cyclohexen-1-ol, 2-methyl-5-(1-methyl ethyl)-, trans-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2-Hexene, 2,5,5-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2-Methyl-2-heptene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2-Oxo-1-pentyl-3-isopropyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2-Pentene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2,3-Dimethyl-2-pentene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2,4-Hexadiene, 2,5-dimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2,6,10,14,18,22-Tetrahydrostaevnae	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	2H-Pyran, tetrahydro-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	3-(3-Pyridyl)propenoic	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4 NJ	2.6 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	3-Cyclohexen-1-ol, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
	3-Cyclohexen-1-ol, 1-methyl-1-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A</td																				

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW06						SW07						SW08					
			July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014		July 6, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 6, 2014 Field Sample	
EPA 8260	1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,5-Cyclooctadiene, 1,5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	7-Oxabicyclo[2.2.1]heptane, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	(+)-2-Ethene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	alpha-Ethene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene, 1-methyl-2-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene, 1-methyl-3-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene, methyl(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Camphene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclohexene, 1-methyl-4-(1-methylethyl)-, (S)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclohexene, 1-methyl-4-(1-methylethylene)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Dodecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Ethane, 1-chloro-1,1-difluoro	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	L-Farnone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	SULFUR DIOXIDE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Tetrahydrofuran	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Tridecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Decene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Eicosanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Eicosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Heptadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Hexene, 4,5-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Nonadecanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Nonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Octadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1-Pentadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Cyclohexadiol, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Cyclononadiene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,4-Dichlorobenzene-d4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Butenal, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Cyclohexen-1-ol, 2-methyl-5-(1-methylethyl)-, trans-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Hexene, 2,5,5-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Hexene, 3,5,5-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Methyl-2-heptene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Oxo-1-pentyl-3-isopropyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Pentene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2,3-Dimethyl-2-butene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2,4-Hexadiene, 2,5-dimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2,6,10,14,18,22-Tetraacosahexaene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2H-Pyran, tetrahydro-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.82 NJ		
	3-(3-Pyridyl)propenoic	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3-Cyclohexen-1-ol, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3-Cyclohexen-1-ol, 1-methyl-1-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3-Eicosene, (E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3-Pentene-2-one, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3,3-Dimethyl-6-methylene-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	3'-5'-Dihydroxyacetophenone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	4-ETHYLTOLUENE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	4-Hydroxy-3-methylacetophenone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	4-Nonylphenol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	4,9,13,17-Tetramethyl-4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	5-Eicosene, (E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	9-Octadecenamide, (Z)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.4 NJ	N/A	N/A		
	13-Boracyclo[7.3.0]tridecane, 13-propoxy-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	17-(1,5-Dimethylhexyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.91 NJ	N/A	N/A		
	17-(1,5-Dimethylhexyl)-xyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	17-(1,5-Dimethylhexyl)-yyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	17-(1,5-Dimethylhexyl)-zyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 NJ		
	17-(1,5-Dimethylhexyl)-y-yl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene, 1-ethenyl-3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Benzene, 1-ethenyl-4-methyl-	ug/L	N/A	N/A	N/A	N/A														

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbath Well Pad

H - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Consider this value if the sample is below the TIC limit.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

■ No Detect

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL)

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

■ No Detect

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW10		SW12		SW15												SW16					
			July 18, 2014 Field Sample	July 6, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 6, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 12, 2014 Field Duplicate							
EPA 8260	1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1,5-Cyclooctadiene, 1,5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	7-Oxabicyclo[2.2.1]heptane, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	(+)-2-Ethene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	alpha-Ethene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene, 1-methyl-2-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene, 1-methyl-3-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene, methyl(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Camphene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Cyclohexanone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Cyclohexene, 1-methyl-4-(1-methylethylene)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Cyclohexene, 1-methyl-5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Dodecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Ethane, 1-chloro-1,1-difluoro	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	L-Fenchone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	SULFUR DIOXIDE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Tetrahydrofuran	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Tridecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1-Decene	ug/L	2.1 NJ	1.9 NJ	N/A	N/A	N/A	4.1 NJ	1.5 NJ	N/A	2.3 NJ													
	1-Eicosanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1-Eicosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1-Heptadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24 NJ	N/A	N/A	N/A						
	1-Hexene, 4,5-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1-Nonadecanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1-Nonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1-Octadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1-Pentadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1,2-Cyclohexadiol, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1,2-Cyclononadiene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1,4-Dichlorobenzene-d4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2-Butenal, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2-Cyclohexen-1-ol, 2-methyl-5-(1-methylethyl)-, trans-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2-Hexene, 2,5,5-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2-Methyl-2-heptene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2-Oxo-1-pentyl-3-isoprop-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2-Pentene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2,3-Dimethyl-2-butene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2,4-Hexadecene, 2,5-dimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2,6,10,14,18,22-Tetraacosahexaene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	2H-Pyan, tetrahydro-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.93 NJ	N/A	N/A	N/A						
	3-(3-Pyridyl)propenoic	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	3-Cyclohexen-1-ol, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	3-Cyclohexen-1-ol, 1-methyl-5-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	3-Eicosene, (E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 NJ	N/A	N/A	N/A						
	3-Pentene-2-one, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	3,3-Dimethyl-6-methylene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	3,5-Dihydroxyacetophenone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	4-Ethyltoluene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	4-Hydroxy-3-methylacetophenone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	4-Nonylphenol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	4,9,13,17-Tetramethyl-4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	5-Eicosene, (E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	9-Octadecenamide, (Z)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	13-Borabicyclo[3.0.0]tridecane, 13-propoxy-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	17-(1,5-Dimethylhexyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	17-(1,5-Dimethylhexyl)-y-1	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	1,4-Cane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	(+)-alpha-Terpineol (p)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	(E)-3-Chloro-2-methyl-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Amylylenecyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene, 1-ethenyl-3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Benzene, 1-ethenyl-4-methyl-	ug/L																						

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

■ No Detect

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbath Well Pad

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color

Detection

■ No Detect

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW18					SW20									
			July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 9, 2014 Field Sample Field Duplicate		July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample
EPA 8260	1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,5-Cyclooctadiene, 1,5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7-Oxabicyclo[2.2.1]heptane, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(+)-2-Ethene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	alpha-Ethene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-2-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-3-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexene, 1-methyl-4-(1-methylethylene)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexene, 1-methyl-5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dodecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethane, 1-chloro-1,1-difluoro	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.6 NJ	37.4 NJ
	L-Fenchone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	SULFUR DIOXIDE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrahydrofuran	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tridecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Decosene	ug/L	0.84 NJ	1.9 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 NJ	N/A
	1-Eicosanol	ug/L	N/A	N/A	N/A	N/A	1.6 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Eicosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Heptadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.3 NJ	N/A
	1-Hexene, 4,5-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Nonadecanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Nonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Octadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1-Pentadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Cyclohexadiol, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Cyclononadiene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene-d4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butenal, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Cyclohexen-1-ol, 2-methyl-5-(1-methylethyl), trans-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexene, 2,5-trimethyl-	ug/L	N/A	N/A	N/A	N/A	2.4 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexene, 3,5,5-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methyl-2-heptene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Oxo-1-pentyl-3-isoprop-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Pentene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,3-Dimethyl-2-butene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Hexadiene, 2,5-dimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,6,10,14,18,22-Tetraacosahexaene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2H-Pyran, tetrahydro-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-(3-Pyridyl)propenoic	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.6 NJ	N/A
	3-Cyclohexen-1-ol, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Cyclohexen-1-ol, 1-methyl-5-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1 NJ	N/A
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Eicosene, (E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1 NJ	N/A
	3-Pentene-2-one, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3-Dimethyl-6-methylene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3'-5'-Dihydroxyacetophen	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-ETHYLTOLUENE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Hydroxy-3-methylacetophenone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nonylphenol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,9,13,17-Tetramethyl-4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5-Eicosene, (E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9-Octadecenamide, (Z)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	13-Borabicyclo[7.3.0]tridecane, 13-propoxy-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	17-(1,5-Dimethylhexyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	17-(1,5-Dimethylhexyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Cane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(+)-alpha-Terpinol (p)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(E)-3-Chloro-2-methyl-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Alylideneencyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethenyl-3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethenyl-4-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethyl-2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethyl-2,3-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-ethyl-2,4-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-2,3-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-3-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1-methyl-4-(1-methylethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.7 NJ	N/A
	Benzene, 1-propynyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1,2,4,5-tetramethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, 1,4-dimethoxy-2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, ethoxymethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzene, carboxylic acid,	ug/L	N/A	N/A</													

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW21							SW21T							SW23							SW24						
			July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014 Field Sample	July 6, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 19, 2014 Field Sample	July 20, 2014 Field Sample						
EPA 8260	1,3-Cyclohexadiene, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	5.7 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1,5-Cyclooctadiene, 1,5-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	7-Oxabicyclo[2.2.1]heptane, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.3 NJ													
	(+)-2,2-diene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.4 NJ													
	alpha-Pinene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Benzene-1,2,3-D,4-, 5,6-dichloro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Benzene, 1-methyl-2-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Benzene, 1-methyl-3-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Benzene, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	21.8 NJ	N/A	389 NJ	121 NJ	82.8 NJ	397 NJ	N/A	N/A	N/A	N/A	N/A	268 NJ	14.1 NJ													
	Benzene, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	21.8 NJ	N/A	389 NJ	121 NJ	82.8 NJ	397 NJ	N/A	N/A	N/A	N/A	N/A	268 NJ	14.1 NJ													
	Benzene, methyl(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5 NJ													
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5 NJ													
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5 NJ													
	Bicyclo[2.2.1]heptanone, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5 NJ													
	Camphene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Cyclohexane	ug/L	N/A	N/A	10.2 NJ	29.6 NJ	N/A	N/A	10.6 NJ	N/A	13.8 NJ	84 NJ	N/A	N/A	N/A	N/A	5 NJ													
	Cyclohexene, 1-methyl-5-	ug/L	N/A	N/A	10.2 NJ	29.6 NJ	N/A	N/A	10.6 NJ	N/A	13.8 NJ	84 NJ	N/A	N/A	N/A	N/A	11.6 NJ													
	D-Limonene	ug/L	N/A	N/A	N/A	192 NJ	33.2 NJ	18.3 NJ	N/A	N/A	114 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
	Dodecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Ethane, 1-chloro-1,1-difluoro	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30 NJ													
	L-Fenchone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	SULFUR DIOXIDE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Tetrahydrofuran	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	Tridecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1-Decosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1-Eicosanol	ug/L	N/A	N/A	N/A	1.4 NJ	N/A	N/A	N/A																					
	1-Eicosene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1-Heptadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1-Hexene, 4,5-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1-Nonadecanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1-Nonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1-Octadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1-Pentadecene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1,2-Cyclohexadienol, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	5.5 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1,2-Cyclononadiene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	1,2-Dichlorobenzene-d4	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	2-Butenal, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	2-Cyclohexen-1-ol, 2-methyl-5-(1-methyl ethyl)-, trans-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	2-Hexene, 2,5,5-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	2-Methyl-2-heptene	ug/L	N/A	N/A	6.7 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	2-Oxo-1-pentyl-3-isopropyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	2-Pentene-1,5-dimethyl-	ug/L	N/A	N/A	N/A	4.1 NJ	N/A	N/A	N/A																					
	2,4-Hexadiene, 2,5-dimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	2,6,10,14,18,22-Tetraacosaheptaene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	2H-Pyran, tetrahydro-2-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	3-(3-Pyridyl)propenoic	ug/L	N/A	N/A	N/A	6.3 NJ	N/A	N/A	N/A																					
	3-Cyclohexen-1-ol, 1-methyl-4-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.7 NJ													
	3-Cyclohexen-1-ol, 1-methyl-1-(1-methyl ethyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
	3-Cyclohexene-1-methanol	ug/L	N/A	N/A</td																										

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
■ Pastel

Detection

■ No Detect

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	GP26				PD03				PD07						
			July 14, 2014 Field Sample	July 14, 2014 Field Sample	July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 6, 2014 Field Sample
EPA 8270	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.89 NJ
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.89 NJ
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.89 NJ
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.89 NJ
	Bicyclo[4.2.0]octa-1,3,5-triene, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	2.3 NJ	N/A	N/A								
	Butane, 2-methyl-2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	123 NJ	N/A	106 NJ	97.4 NJ	139 NJ	N/A	N/A	2.5 NJ	N/A	N/A
	Carbonic acid, dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cholest-5-en-3 β -ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Cholesterol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.74 NJ	N/A	N/A	N/A	N/A
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclic octaatomic sulfur	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclobutaneacetonitrile	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1 NJ	N/A	N/A	N/A	N/A
	Cyclohexadecane, 1,2-die	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CYCLOHEXANE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.2 NJ	N/A	N/A	N/A	N/A
	Cyclohexanemethanol, alpha,alpha,4-trimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Cyclohexane, 1,1-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexane, 1,1,1-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexane, 1-methyl-1-(α -methylpropyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	189 NJ	125 NJ	N/A	17.5 NJ	3.2 NJ
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexene, 1-methyl-1-(1-methylpropyl)-, (S)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexene, 1-methyl-4-(1-methylpropyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclooctadecane, ethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclopentane, (4-octyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Cyclopentasiloxane, deca	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Decane, 3,3,4-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Decanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzidene 4,4'-biphenylenediamine	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethylsulfide	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Docane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Docosane, 11-decyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Dodecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dotriacontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Eicosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ergosta-5,22-dien-3 β -ol, (3B, 22E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethanamine, 1-(2-(cyclopentenylidene)-N,N-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.3 NJ	4.3 NJ
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2 NJ	4.6 NJ
	Fenchol, exo-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Heptacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptane, 2,2,3,5,6,6-h	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexadecane, 2,6,10,14-t	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexadecenoic acid, Z-11	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Hexatriacontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indene	ug/L	N/A	N/A	N/A	N/A	1.1 NJ	N/A	N/A								
	Linear alkene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Linear propanoate	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-(2-hydroxyethyl)cyclohexanamide	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.1 NJ	2.8 NJ	N/A	1.8 NJ	0.62 NJ
	N-Hexadecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 NJ	N/A	4.1 NJ	N/A
	N,N-Bis(pentamethylene)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nonacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Nonadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.46 NJ	N/A	N/A	N/A
	Nonadecane, 9-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Octacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Octadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.46 NJ	N/A	N/A	N/A
	Ostadecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6 NJ	1.1 NJ	N/A	0.51 NJ	N/A
	Octanoic Acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1 NJ	N/A	N/A	N/A
	Oleic Acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Pentane, 2,3,4-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentatriacontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol, 2-methyl-4-(1,1,3,3-tetramethylbutyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol, 2-methyl-5-1-methylethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol, 4-(1,1,3,3-tetramethylbutyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol, 4,4'-ethoxy-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol, nonyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.5 NJ	7.9 NJ
	Phosphorus, tridecanoate, tributyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Phthalic anhydride	ug/L	N/A	N/A	N/A	N/A	1.1 NJ	N/A	N/A								
	Pulegone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silane, trichloroacetyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.8 NJ	N/A	N/A
	Squalene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Stigmasterol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Stigmasterol, 22,23-dihydro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetracontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tetracosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	Tetradecane, 2,6,10-trimethyl-</																

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
De

Detection

■ No Detection

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color
De

Detection

■ No Detection

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW08														SW09						
			July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 6, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample				
EPA 8270	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bicyclo[4.2.0]octa-1,3,5-triene, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Butane, 2-methyl-2-methyl-2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	110 NJ	126 NJ	99.5 NJ
	Carboxylic acid, C ₁ -C ₄	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cholest-5-en-3 β -ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cholesterol	ug/L	1.5 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclic octaatomic sulfur	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclobutaneacetonitrile	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexadecane, 1,2-die	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	CYCLOHEXANE	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.2 NJ	N/A	
	Cyclohexanemethanol, alpha,alpha,4-trimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclopentane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexanol, 2-methyl-1-(<i>n</i> -propyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexene, 1-methyl-4-(1-methylpropyl)-	(S)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexene, 1-methyl-4-(1-methylbutyl)-	(S)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclooctadecane, ethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclopentanone (4-oxido)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclopentasiloxane, deca	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.8 NJ	N/A	N/A	N/A	
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Decane, 3,3,4-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Decanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzylidene 4,4'-biphenylene diamine	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethylsulfide	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Docane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1 NJ	N/A	N/A	N/A	N/A	N/A
	Docosane, 11-decyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dodecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dotriacontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Eicosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ergosta-5,22-dien-3 β -ol, (3B, 22E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.96 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethanamine, 1-(2-(cyclopentenylidene)-N,N-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fenchol, exo-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptacosane	ug/L	4 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptadecane	ug/L	2.6 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptacosane	ug/L	3.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.5 NJ	N/A	N/A	N/A	N/A	N/A
	Heptadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptane, 2,2,3,5,6,6-h	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexacosane	ug/L	3.5 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexadecane, 2,6,10,14-t	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexadecenoic acid, Z-11-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Heptadecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 NJ	N/A	N/A	N/A	N/A
	Linen	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Linear propane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-(2-hydroxyethyl)dodecanamide	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.83 NJ	N/A	N/A
	n-Hexadecanoic acid	ug/L	0.99 NJ	N/A	3.7 NJ	2.1 NJ	N/A	1.6 NJ	N/A	1.8 NJ	0.96 NJ	1.5 NJ	N/A	N/A	N/A	N/A							
	N,N-Bis(pentamethylene)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.89 NJ	N/A	N/A	N/A	N/A
	Nonacosane	ug/L	3.5 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.62 NJ	N/A	N/A	N/A	N/A
	Nonadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1 NJ	N/A	N/A	N/A	N/A
	Octadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61 NJ	N/A	N/A	N/A	N/A
	Octadecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.82 NJ	0.52 NJ	N/A	0.6 NJ	N/A
	Oleic Acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Olein Acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentacosane	ug/L	3.7 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentane, 2,3,4-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentatriacontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol, 2-methyl-4-(1,3,3-tetramethylbutyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol, 2-methyl-5-1-methylethyl-																						

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW09							SW10								
			July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 6, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	
EPA 8270	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bicyclo[4.2.0]octa-1,3,5-triene, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Butane, 2-methyl-2-methyl-2-methyl-	ug/L	124 NJ	N/A	88.8 NJ	N/A	N/A	N/A	N/A	N/A	87.7 NJ	111 NJ	102 NJ	129 NJ	N/A	85.7 NJ	N/A	
	Carbonic acid, dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cholest-5-en-3 β -ol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1 NJ	N/A	N/A	
	Cholesterol	ug/L	N/A	N/A	N/A	N/A	0.91 NJ	N/A	N/A	N/A	13 NJ	0.87 NJ	N/A	N/A	N/A	0.45 NJ	N/A	
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclic octaatomic sulfur	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.3 NJ	N/A	1210 NJ	
	Cyclobutaneacetonitrile	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.1 NJ	N/A	
	Cyclohexadecane, 1,2-die	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1 NJ	N/A	
	CYCLOHEXANE	ug/L	N/A	N/A	22 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexanemethanol, alpha,alpha,alpha-trimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclopentane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexanol, 1-methyl-1-(α -methylpropenyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexene, 1-methyl-1-(1-methylpropenyl)-, (S)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexene, 1-methyl-4-(1-methylpropenyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclooctadecane, ethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclopentanone, (4-oxo-)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclopentasiloxane, deca	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Decane, 3,3,4-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Decanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenzylidene 4,4'-biphenylenediamine	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dimethylsulfide	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5 NJ	N/A							
	Docane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1 NJ	0.45 NJ	N/A	N/A	N/A	N/A	N/A	0.43 NJ	
	Docosane, 11-decyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dodecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dotriacontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Eicosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Ergosta-5,22-dien-3 β -ol, (3B, 22E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Ethanamine, 1-(2-(cyclopentenylidene)-N,N-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fenchol, exo-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.56 NJ	
	Heptacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Heptadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1 NJ	N/A							
	Heptadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Heptane, 2,2,3,5,6,6-h	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexadecane, 2,6,10,14-t	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexadecenoic acid, Z-11-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexatriacontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.77 NJ	N/A	0.76 NJ	N/A	N/A	3.2 NJ	2 NJ	23.2 NJ
	Indene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Linen	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Linoleyl propanoate	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N-(2-hydroxyethyl)olecanamide	ug/L	N/A	N/A	2 NJ	1.3 NJ	0.83 NJ	7.7 NJ	1.8 NJ	1.3 NJ	1.3 NJ	1.3 NJ	N/A	N/A	N/A	N/A	N/A	
	n-Hexadecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N,N-Bis(pentamethylene)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nonacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.5 NJ	N/A							
	Nonadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3 NJ	N/A							
	Nonadecane, 9-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.3 NJ	N/A							
	Octacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1 NJ	N/A							
	Octadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2 NJ	N/A	N/A	N/A	N/A	N/A	0.43 NJ	N/A	
	Octadecanoic acid	ug/L	N/A	N/A	0.92 NJ	N/A	N/A	N/A	N/A	6 NJ	0.43 NJ	N/A	N/A	N/A	N/A	N/A	2.8 NJ	
	Oleic Acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Olein Acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pentacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pentane, 2,3,4-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pentatriacontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol, 2-methyl-4-(1,1,3,3-tetramethylbutyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol, 2-methyl-5-1-methylethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol, 4-(1,1,3,3-tetramethylbutyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol, 4,4-tert-butyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol, 4-ethyl-2-methoxy-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol, nonyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phosphorus, 1,2-dioleoyl ester	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phthalic anhydride	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pulegone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Silane, trichloroacetyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Squalene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Stigmasterol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Stigmasterol, 22,23-dihydro-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1 NJ	N/A	
	Tetracontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6 NJ	N/A							
	Tetracosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetradecane, 2,6,10-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetradecane, 2,6,10-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetracontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6 NJ	N/A							
	Tri(2-chloroethyl) phosphate	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.1 NJ	N/A	N/A	N/A	N/A	N/A	N/A	
	Tricantanone	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tricosane	ug/L	N/A	N/A	N/A</td													

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbath Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

No Detection

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW16												SW17													
			July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014		July 6, 2014 Field Sample	July 7, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample									
EPA 8270	Bicyclo[2.2.1]heptan-2-ol	ug/L	N/A	N/A	N/A	N/A	N/A	2.2 NJ		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one	ug/L	N/A	N/A	N/A	N/A	N/A	2.2 NJ		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	2.2 NJ		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	2.2 NJ		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[4.2.0]octa-1,3,5-triene, 3-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Butane, 2-methyl-2-ethyl-2-methyl-	ug/L	115 NJ		84.9 NJ					N/A	N/A	N/A	N/A	N/A	N/A	N/A	126 NJ	109 NJ	100 NJ	130 NJ	93.2 NJ							
	Carbonic acid, dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cholestan-5-en-3 β -ol	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cholesterol	ug/L	N/A	1.1 NJ						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclic octatetraene sulfur	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclobutaneacetonitrile	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclohexadecane, 1,2-die	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 NJ		
	CYCLOHEXANE	ug/L	123 NJ		25.4 NJ					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclohexanemethanol, alpha,alpha,4-trimethyl	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclopentane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclohexanol, 5-methyl-4-(1-pethylpropenyl)-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.5 NJ											
	Cyclohexone	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclohexene, 1-methyl-4-(1-methylpropenyl)-, (S)-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5 NJ		3.7 NJ		9.2 NJ							
	Cyclohexene, 1-methyl-4-(1-methylpropenyl)-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5 NJ		3.7 NJ		9.2 NJ							
	Cyclooctadecane, ethyl-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclopentane, (4-octyl)	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cyclopentasiloxane, deca	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.9 NJ	25.6 NJ	23.1 NJ									
	Decane, 3,3,4-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Decanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Dibenzidine 4,4'-biphenylenediamine	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.9 NJ	4.9 NJ	3.8 NJ	6.5 NJ								
	Dodecane	ug/L	11.9 NJ							N/A	11.3 NJ						62.7 NJ											
	Docosane, 11-decyl	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.49 NJ											
	Dodecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Dodecane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 NJ											
	Eicosane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Ergosta-5,22-dien-3 β -ol, (3B, 22E)-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Ethanamine, 1-(2,4-cyclopentenylidene)-N,N-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Eucalyptol	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.9 NJ	4.9 NJ	3.8 NJ	6.5 NJ								
	Fenchol, exo-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Heptane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.2 NJ											
	Heptadecane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Heptadecane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Heptadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Heptane, 2,2,3,5,6,6-h	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1 NJ											
	Hexacosane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Hexadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Hexadecene, 2,6,10,14-t	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Hexadecenoic acid, Z-11-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Heptadecenoic acid	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Indene	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Linear alkene	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Linear alkene	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Linoleyl propanoate	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	50.6 NJ	17 NJ	8.9 NJ	9.6 NJ								
	N-(2-hydroxyethyl)decanediamide	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8 NJ		
	N,N-Bis(pentamethylene)	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9 NJ											
	Nonacosane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Nonadecane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Nonadecane, 9-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Octacosane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Octadecane	ug/L	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Octadecanoic acid	ug/L	N/A	1.5 NJ						N/A</td																		

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

■ No Detection

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
De

Detection

■ No Detection

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Units	SW21							SW21T							SW23								
			July 10, 2014 Field Sample	July 11, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample	July 16, 2014 Field Sample	July 17, 2014 Field Sample	July 18, 2014 Field Sample	July 20, 2014 Field Sample	July 6, 2014 Field Sample	July 8, 2014 Field Sample	July 9, 2014 Field Sample	July 12, 2014 Field Sample	July 13, 2014 Field Sample	July 14, 2014 Field Sample	July 15, 2014 Field Sample						
EPA 8270	Bicyclo[2.2.1]heptan-2-ol	ug/L	7 NJ	N/A	N/A	N/A	N/A	N/A	5.4 NJ	1.1 NJ	N/A	4.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one	ug/L	7 NJ	N/A	N/A	N/A	N/A	N/A	5.4 NJ	1.1 NJ	N/A	4.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	ug/L	7 NJ	N/A	N/A	N/A	N/A	N/A	5.4 NJ	1.1 NJ	N/A	4.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	ug/L	7 NJ	N/A	N/A	N/A	N/A	N/A	5.4 NJ	1.1 NJ	N/A	4.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bicyclo[2.2.1]heptan-2-one, 3-methyl-	ug/L	N/A	1.1 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Butane, 2-methoxy-2-methyl-	ug/L	99.3 NJ	103 NJ	98.5 NJ	141 NJ	N/A	82.1 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2 NJ	N/A	N/A	N/A	
	Carbonic acid, methyl 4-	ug/L	N/A	N/A	7.6 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Cholest-5-en-3-ol, (3a)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Cholesterol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	column bleed	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Cyclic octaetanoic sulfur	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Cyclobutaneacetonitrile	ug/L	11.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	2.1 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexadecane, 1,2-die	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	CYCLOL	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	20.6 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexanemethanol, alpha,alpha,4-trimethyl	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Cyclohexanol	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Cyclohexanol, 1-methyl-4-(1-methyl ethenyl)-	ug/L	4.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
	Cyclohexane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Cyclohexene, 1-methyl-4-(1-methyl ethenyl)-, (S)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.6 NJ	N/A	N/A	N/A										
	Cyclohexene, 1-methyl-4-(1-methyl ethylene)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.6 NJ	N/A	N/A	N/A										
	Cyclooctadecane, ethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Cyclopentane, 4-octyld	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Cyclopentasiloxane, deca	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	D-Limonene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	140 NJ	N/A	N/A	N/A										
	Decane, 3,3-dimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Decane, 3,3,3-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	93 NJ	99.6 NJ	N/A	N/A										
	Dibenzylidene-4,4'-biphenylene diamine	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40 NJ	26.7 NJ	N/A	N/A	N/A	N/A										
	Diethyltoluamide	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Docosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Docosane, 11-decyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Dodecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	226 NJ	N/A	N/A	N/A										
	Döttricontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Eicosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Ergosta 5,22-dien-3-ol, (3B, 22E)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Ethanamine, 1-(2,4-cyclopentenylidene)N,N-dimethyl-	ug/L	9.3 NJ	N/A	N/A	N/A	N/A	N/A	5 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.1 NJ	N/A	N/A	N/A	
	Fenoxo-4-oxo-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Heneicosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Heptacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Heptadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Heptadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Heptane, 2,2,3,5,5,6-h	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Hexacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Hexadecane, 2-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Hexadecane, 2,6,10,14-t	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Hexadecenoic acid, Z-11-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Heptane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Indene	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Limonene	ug/L	50.1 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
	Linolyl propanoate	ug/L	5.2 NJ	5.9 NJ	4.6 NJ	N/A	N/A	N/A	N/A	4.1 NJ	N/A	1.9 NJ	N/A	N/A	3.3 NJ	2.9 NJ	N/A	1 NJ	N/A	N/A	864 NJ	1210 NJ	N/A	413 NJ	N/A
	N-(2-hydroxyethyl)iodocanamide	ug/L	N/A	3.3 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	n-Hexadecanoic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	N,N'-Bis(pentamethylene)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Nonacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Nonadecane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Nonadecane, 9-methyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Octacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Oleic acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Octanoic Acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.8 NJ	N/A	N/A	N/A										
	Oleic Acid	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Pentacosane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Pentane, 2,3,4-trimethyl-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Pentatetracontane	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Phenol, 2-methyl-5-(1-methyl ethenyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Phenol, 4-(1,1,3,3-tetramethylbutyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Phenol, 4-(2,2,3,3-tetramethylbutyl)-	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	Phenol, 4-(ethoxy-2-methoxy)-	ug/L	9.8 NJ	N/A	N/A	N/A	N/A</																		

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

No Detection

Water Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).
E1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD)

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.
N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

Detection

■ No Detection

APPENDIX C.2

Data Summary Tables

Sediment

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD11								SW04							
				July 12, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 21, 2014 Field Sample	July 30, 2014 Field Sample	August 12, 2014 Field Sample	August 14, 2014 Field Sample	August 23, 2014 Field Sample	Field Duplicate	September 1, 2014 Field Sample	September 4, 2014 Field Sample	October 17, 2014 Field Sample				
ASTM D516-90,02	Sulfate	Null	ug/L	1000 U	1000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
ASTM D2974-87	Percent Moisture	Null	%	45.7	26.3	29.5	40.5	31.5	43.1	66.3	64	18.6	23.6	23.6	29.3	N/A	N/A		
EPA 300.0	Bromide	Null	ug/L	310 U	310 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
EPA 6010B	Aluminum	530000	mg/kg	22300	5550 J	13900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Antimony	Null	ug/kg	0.53 U	0.00 U	0.01 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Arsenic	9.79	mg/kg	10.2	4 J	12.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Barium	360	mg/kg	214	79.2 J	148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Beryllium	0.8	mg/kg	1.4	0.48	1.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cadmium	0.99	mg/kg	0.058 U	0.042 U	0.032 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Calcium	27000	mg/kg	17800 J	3540 J	3610	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Chromium	43.4	mg/kg	28.5	8.9 J	23.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Cobalt	50	mg/kg	13.7	6.3 J	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Copper	31.6	mg/kg	34.6	10.4 J	27.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Iron	51000	mg/kg	33000	13900 J	35200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Lead	35.6	mg/kg	16	7.3 J	21.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Lithium	Null	mg/kg	27.2	0.1 U	18.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Magnesium	9900	mg/kg	6400	2140 J	4250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Manganese	3000	mg/kg	550 J	458 J	683	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Nickel	22.7	mg/kg	31.7	10.7 J	29.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Potassium	14000	mg/kg	3460 J	781	1780	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Silica	Null	mg/kg	0.079 U	0.057 U	0.044 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Sodium	Null	mg/kg	46.9 U	34 U	25.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Strontium	250	mg/kg	151 J	21.6 J	35.5 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Tin	Null	mg/kg	5.1 U	3.7 U	2.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Zinc	121	mg/kg	71.1 J	27.1 J	65.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
EPA 7471A	Mercury	Null	mg/kg	0.0050 U	0.0028 U	0.0027 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
EPA 8015	Ethyleneglycol	Null	mg/kg	917 U	N/A	680 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
TPH (C10-C28)	TPH (C10-C28)	Null	mg/kg	281 J	15	6.8 U	13.1 J	13.6	1.6 U	17.8	82.5	73.2	1.3 U	1.4 U	1.4 U	1.5 U			
	1,1-Dichloroethane	Null	ug/kg	2.0 U	6.0 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,1-Dichloroethene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,1,1-Trichloroethane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,1,2-Trichloroethane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,1,2,2-Tetrachloroethane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichlorobenzene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichloroethane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichloroethylene (Total)	Null	ug/kg	2.5 U	13.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichloropropane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichloroethene	Null	ug/kg	2.5 U	10 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,3-Dichloroethene	Null	ug/kg	2.5 U	6.5 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,4-Dichloroethene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Butanone (MEK)	Null	ug/kg	12 U	13.9 U	16.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Hexanone	Null	ug/kg	50 U	13.9 U	68.8 U	2.2 U	3.6 U	2.7 U	3.3 U	35.6	4.8 U	2.1 U	20	13.4	N/A	N/A		
	Benzene	Null	ug/kg	2.5 U	6.9 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bromochloromethane	Null	ug/kg	2.5 U	N/A	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
EPA 8260	Bromodichloromethane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bromoform	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bromoform	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Carbon disulfide	23.0	ug/kg	2.0 U	6.5 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Carbon tetrachloride	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Chlorobenzene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Chloroethane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Chloroform	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Chloromethane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	cis-1,2-Dichloroethene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	cis-1,3-Dichloropropene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Dibromochloromethane	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Ethylbenzene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	m-xylene	433	ug/kg	16.8	13.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	METHYL SOBUTYL KETONE	Null	ug/kg	12 U	13.0 U	16.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Methyl tert-butyl ether	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Methylene Chloride	159	ug/kg	39.9	6.9 U	13.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	o-Xylene	433	ug/kg	8.5	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Styrene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Tetrachloroethene	990	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Toluene	1220	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	TOTAL BTEX	Null	ug/kg	N/A	41.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
EPA 8270	trans-1,2-Dichloroethene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	trans-1,3-Dichloropropene	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Tetrahydrofuran	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Vinyl chloride	Null	ug/kg	2.5 U	6.9 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Xylene (Total)	433	ug/kg	25.3	20.8 U	6.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2-Dichlorobenzene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,2,4-Trichlorobenzene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,3-Dichlorobenzene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	1,4-Dichlorobenzene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Chlorophenol	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Chlorophenol	20.2	ug/kg	351	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Methylphenol(o-Cresol)	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	2-Nitroaniline	Null	ug/kg	789 U	1130 U	1090 U	N/A	N/A	N/A	N/A									

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW06								SW07				SW08		
				July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample	July 10, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 21, 2014 Field Sample			
ASTM D516-90,02	Sulfate	Null	ug/L	1000 U	49.5	47.6	23.9	45.5	24.5	17.4	22.8	20.7	1000 U	25600	28300	N/A		
ASTM D2974-87	Percent Moisture	Null	%	34.4	34.4	47.6	45.5	45.5	24.5	17.4	22.8	20.7	61.9	61.7	63			
EPA 300.0	Bromide	Null	ug/L	310 U	310 U	N/A	N/A	N/A	N/A	N/A	N/A	310 U	110	15 UJ	N/A			
EPA 6010B	Aluminum	530000	mg/kg	17300 J	18600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14100	17500 J	14300	N/A		
	Antimony	Null	ug/kg	0.430 UJ	0.430 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.271 UJ	0.399 UJ	0.020 UJ	N/A		
	Arsenic	9.79	mg/kg	10.7 J	14.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.4	11.4 J	8.2	N/A		
	Barium	360	mg/kg	197 J	227	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118	172 J	144	N/A		
	Beryllium	0.8	mg/kg	1.2	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	1.5	1.1	N/A		
	Cadmium	0.99	mg/kg	0.045 U	0.048 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.39	0.66	0.53	N/A		
	Calcium	27000	mg/kg	11700 J	10900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34800	3390 J	3750	N/A		
	Chromium	43.4	mg/kg	23.7 J	29.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.3	28.8 J	24.7	N/A		
	Cobalt	50	mg/kg	16.4 J	21.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.9	24.6 J	19.3	N/A		
	Copper	31.6	mg/kg	24.9 J	30.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.7	38.2 J	31.3	N/A		
	Iron	51000	mg/kg	31200 J	37900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27500	37400 J	29200	N/A		
	Lead	35.6	mg/kg	16.3 J	23.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.3	31.3 J	30.3	N/A		
	Lithium	Null	mg/kg	20.9 J	20.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.3	23.9 J	18.7	N/A		
	Magnesium	9900	mg/kg	5090 J	5250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8740	4290 J	3590	N/A		
	Manganese	3000	mg/kg	765 J	1180	N/A	N/A	N/A	N/A	N/A	N/A	N/A	841	492 J	764	N/A		
	Nickel	22.7	mg/kg	27.7 J	28.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.6	40.9 J	33.6	N/A		
	Potassium	14000	mg/kg	2430	2360	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1160	2120	1840	N/A		
	Silica	Null	mg/kg	0.061 U	0.065 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.039 U	0.084 U	0.089 U	N/A		
	Sodium	Null	mg/kg	36.5 U	38.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	400	50 U	52.9 U	N/A		
	Strontium	250	mg/kg	78.4 J	63.1 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	128 J	38.8 J	33.7 J	N/A		
	Tin	Null	mg/kg	4 U	4.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.5 U	5.4 U	5.8 U	N/A		
	Zinc	121	mg/kg	66.1 J	70.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	109	141 J	124	N/A		
EPA 7471A	Mercury	Null	mg/kg	0.0032 U	0.0041 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0025 U	0.0057 U	0.0056 U	N/A		
EPA 8015	Ethyleneglycol	Null	mg/kg	N/A	99.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	63.1 U	130 U	131 U	N/A		
EPA 8260	TPH (C10-C28)	Null	mg/kg	171	61.2	17.1	16.1	21.3 J	8.8 J	8.8 J	1.3 U	1.4 U	6.2 U	39.4	13 U	88.6 J	N/A	
	1,1-Dichloroethane	Null	ug/kg	7.6 U	4.2 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,1-Dichloroethene	Null	ug/kg	7.6 U	4.9 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,1,1-Trichloroethane	Null	ug/kg	7.6 U	4.9 U	4 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,1,2-Trichloroethane	Null	ug/kg	7.6 U	4.9 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,1,2,2-Tetrachloroethane	Null	ug/kg	7.6 UJ	4.9 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,2-Dichlorobenzene	Null	ug/kg	7.6 U	4.9 U	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,2-Dichloroethane	Null	ug/kg	7.6 U	4.9 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,2-Dichloroethylene (Total)	Null	ug/kg	15.3 U	4.9 U	5 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	25.5 U	6.5 U	N/A		
	1,2-Dichloropropane	Null	ug/kg	7.6 U	4.9 U	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,2-Dichloroethene	Null	ug/kg	7.6 U	4.9 U	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,3-Dichlorobenzene	Null	ug/kg	7.6 U	4.9 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	1,4-Dichlorobenzene	Null	ug/kg	7.6 U	4.9 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	2-Butanone (MEK)	Null	ug/kg	15.3 U	23.8 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	15.1 U	25.5 U	31.3 U	N/A		
	2-Hexanone	Null	ug/kg	15.3 U	99 U	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	63.1 U	25.5 U	131 U	N/A		
	Acetone	9.9	ug/kg	15.3 U	364	3 U	2 U	2.8 U	61.7	2.6 U	6.3 U	6.3 U	25.5 U	131 U	87.3	N/A		
	Bromochloromethane	Null	ug/kg	7.6 U	4.9 U	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Bromodichloromethane	Null	ug/kg	7.6 U	4.9 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Bromoform	Null	ug/kg	7.6 U	4.9 U	3.9 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Bromomethane	Null	ug/kg	7.6 U	4.9 U	4.5 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Carbon disulfide	23.0	ug/kg	70.0 U	9.0 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	63.0 U	12.8 U	13.1 U	N/A		
	Carbon tetrachloride	Null	ug/kg	7.6 U	4.9 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Chlorobenzene	Null	ug/kg	7.6 U	4.9 U	1.5 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Chloroethane	Null	ug/kg	7.6 U	4.9 U	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Chloroform	Null	ug/kg	7.6 U	4.9 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Chloromethane	Null	ug/kg	7.6 U	4.9 U	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	cis-1,2-Dichloroethene	Null	ug/kg	7.6 U	4.9 U	3.8 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	cis-1,3-Dichloropropene	Null	ug/kg	7.6 U	4.9 U	2.4 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Dibromochloromethane	Null	ug/kg	7.6 U	4.9 U	2.3 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Ethylbenzene	Null	ug/kg	7.6 U	4.9 U	3.9 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	methylcyclohexene	433	ug/kg	15.3 U	4.9 U	3 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	25.5 U	6.5 U	N/A		
	METHYL SOBUTYL KETONE	Null	ug/kg	15.3 U	23.0 U	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A	15.1 U	25.5 U	31.3 U	N/A		
	Methyl tert-butyl ether	Null	ug/kg	7.6 U	4.9 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Methylene Chloride	159	ug/kg	7.6 U	19.8 U	2.1 U	N/A	N/A	N/A	N/A	N/A	N/A	25.4	12.8 U	5.61	N/A		
	o-Xylene	433	ug/kg	7.6 U	4.9 U	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Styrene	Null	ug/kg	7.6 U	4.9 U	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Tetrachloroethene	990	ug/kg	7.6 U	3.4 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	2.1 U	12.8 U	4.4 U	N/A		
	Toluene	1220	ug/kg	7.6 U	4.9 U	0.99 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	TOTAL BTX	Null	ug/kg	45.8 U	N/A	10.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76.5 U	N/A	N/A		
	trans-1,2-Dichloroethene	Null	ug/kg	7.6 U	4.9 U	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	trans-1,3-Dichloropropene	Null	ug/kg	7.6 U	4.9 U	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Toluene	Null	ug/kg	7.6 U	2 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	1.3 U	12.8 U	2.6 U	N/A		
	Vinyl chloride	Null	ug/kg	7.6 U	4.9 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	12.8 U	6.5 U	N/A		
	Xylene (Total)	433	ug/kg	22.9 U	9.9 U	4.7 U	N/A	N/A	N/A	N/A	N/A	N/A	6.3 U	38.3 U	13.1 U	N/A		
	1,2-Dichlorobenzene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A		
	1,2,4-Trichlorobenzene	Null	ug/kg															

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW08								SW09		SW10		
				July 30, 2014 Field Sample	August 12, 2014 Field Sample	August 14, 2014 Field Sample	August 23, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	October 17, 2014 Field Sample	Field Duplicate	Field Sample	Field Sample	Field Sample	Field Sample	
ASTM D516-90,02	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22200	11300	1000 U		
ASTM D2974-87	Percent Moisture	Null	%	59.8	21.8	46.5	64.6	53	58.5	60.2	59.5	36.2	24	21		
EPA 300.0	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	310 U	310 U	310 UJ		
EPA 6010B	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15 U	140	140 J		
	Aluminum	53000	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6780	11600 J	11100		
	Antimony	Null	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.45 UU	0.035 U	0.020 UJ		
	Arsenic	9.79	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.2 J	8.1 J	8.7		
	Barium	360	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	70.5 J	124 J	205		
	Beryllium	0.8	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.76	0.88	0.9		
	Cadmium	0.99	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.67	0.32	0.37		
	Calcium	27000	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4340 J	1950 J	2280		
	Chromium	43.4	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.7 J	16.1 J	16.3		
	Cobalt	50	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16 J	12.8 J	15.7		
	Copper	31.6	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24 J	20 J	19		
	Iron	51000	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20200 J	28400 J	26400		
	Lead	35.6	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.8 J	20.0 J	17.5		
	Lithium	Null	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.19 U	16.1 J	16.1		
	Magnesium	9900	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1640 J	2570 J	2220		
	Manganese	3000	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	568 J	818 J	909		
	Nickel	22.7	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23.4 J	22.1 J	24.7		
	Potassium	14000	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	827	1290	1300		
	Silica	Null	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0033 U	0.0027 U	0.0027 U		
	Sodium	Null	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.063 U	0.047 U	0.04 U		
	Strontium	250	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	37.5 U	28.1 U	23.5 U		
	Tin	Null	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.8 J	16.5 J	20.6 J		
	Zinc	121	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1 U	3.1 U	2.6 U		
EPA 7471A	Acetone	Null	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	134 J	77.7 J	76.8		
EPA 8015	Ethylene glycol	Null	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
EPA 8260	TPH (C10-C28)	Null	mg/kg	17.9	52 J	92.7 J	139 J	60.1	24.3 J	53.4 J	2.7 U	2.6 U	38.2	33.9	63.0 U	
	1,1-Dichloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0 U	5.6 U	3.2 UJ		
	1,1-Dichloropropane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,1,1-Trichloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,1,2-Trichloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,1,2,2-Tetrachloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,2-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,2-Dichloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,2-Dichloroethylene (Total)	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.1 U	13.2 UJ	32.0 U		
	1,2-Dichloropropane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,2-Dichlorotetrafluoroethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,3-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	1,4-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	2-Butanone (MEK)	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.1 U	13.2 UJ	15.2 U		
	2-Hexanone	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.1 U	13.2 UJ	63.3 U		
	Acetone	9.9	ug/kg	4.4 U	1.6 U	24.2	5.5 UJ	50	80.5	137	191	102	15.1 U	679 U	63.3 U	
	Benzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	1.3 U		
	Bromochloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	
	Bromodichloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Bromoform	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Bromoform	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Carbon disulfide	23.0	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	6.3 U		
	Carbon tetrachloride	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Chlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Chloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Chloroform	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Chloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	cis-1,2-Dichloroethene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	cis-1,3-Dichloropropene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Dibromochloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Ethylbenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	m-xylene	433	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.1 U	13.2 UJ	32.0 U		
	METHYL SOBOUBI KETONE	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.1 U	13.2 UJ	15.2 U		
	Methyl tert-butyl ether	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Methylene Chloride	159	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	12.7 U		
	o-Xylene	433	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Styrene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Tetrachloroethene	990	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	2.2 U		
	Toluene	1220	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	TOTAL BTX	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45.4 U	39.5 U	N/A		
	trans-1,2-Dichloroethene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	trans-1,3-Dichloropropene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Tetrahydrofuran	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	1.3 U		
	Vinyl chloride	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.6 U	6.6 U	3.2 U		
	Xylene (Total)	433	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.7 UJ	19.7 UJ	6.3 U		
	1,2-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	1,2,4-Trichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	1,3-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	1,4-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2-Chlorophenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2-Methylnaphthalene	20.2	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2-Methylphenol(o-Cresol)	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2-Nitroaniline	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2590 U	1090 U	1010 U		
	2,2-Oxybis[1-chloropropane]	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2,4-Dichlorophenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2,4-Dimethylphenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2,4-Dinitrophenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2590 U	1090 U	2020 U		
	2,4-Dinitrotoluene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2,4,5-Trichlorophenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2590 U	1090 U	208 U		
	2,4,6-Trichlorophenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U		
	2,6-Dinitrotoluene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A</td								

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW11		SW12		SW14		SW15		SW16		SW17		
				July 2, 2014 Field Sample	July 21, 2014 Field Sample	July 2, 2014 Field Sample	August 13, 2014 Field Sample	July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	
ASTM D516-90,02	Sulfate	Null	ug/L	1000 U	N/A	1000 U	N/A	1000 U	N/A	1000 U	N/A	1000 U	N/A	1000 U	N/A	
ASTM D2974-87	Percent Moisture	Null	%	21.9	65.5	19.5	24.4	20.8	16.2	25.2	30.5	57.1	*	62.8	30.6	
EPA 300.0	Bromide	Null	ug/L	310 U	N/A	310 U	N/A	310 U	N/A	310 U	N/A	310 U	N/A	310 U	N/A	
EPA 6010B	Aluminum	530000	mg/kg	14000 J	N/A	4050 J	N/A	11200 J	12800 J	8970 J	6240	9130 J	*	N/A	N/A	
	Antimony	Null	ug/kg	0.33 U	N/A	0.33 U	N/A	0.31 U	0.30 U	0.33 U	0.35 U	0.35 U	*	N/A	N/A	
	Arsenic	9.79	mg/kg	141 J	N/A	2.2 J	N/A	5.4 J	9.3 J	12.6 J	10.2	3.7 J	*	N/A	N/A	
	Barium	360	mg/kg	161 J	N/A	46.9 J	N/A	156 J	117 J	144 J	107	99.4 J	*	N/A	N/A	
	Beryllium	0.8	mg/kg	1.3	N/A	0.3	N/A	0.91	1.2	1.3	0.7	0.55	*	N/A	N/A	
	Cadmium	0.99	mg/kg	0.29	N/A	0.039 U	N/A	0.28	0.028 U	0.41	0.32	0.056 U	*	N/A	N/A	
	Calcium	27000	mg/kg	2800 J	N/A	1150 J	N/A	2320 J	2540 J	69200 J	132000	5010 J	*	N/A	N/A	
	Chromium	43.4	mg/kg	25.1 J	N/A	5.5 J	N/A	20.4 J	22 J	11.4 J	12.1	11.4 J	*	N/A	N/A	
	Cobalt	50	mg/kg	17.4 J	N/A	3.4 J	N/A	12.5 J	21.8 J	19.6 J	12.3	6 J	*	N/A	N/A	
	Copper	31.6	mg/kg	38.3 J	N/A	6.7 J	N/A	34.5 J	29.4 J	15.1 J	19.1	12.5 J	*	N/A	N/A	
	Iron	51000	mg/kg	47100 J	N/A	7010 J	N/A	34300 J	35200 J	47300 J	32200	13100 J	*	N/A	N/A	
	Lead	35.6	mg/kg	20.1 J	N/A	4.5 J	N/A	13.2 J	16.4 J	15.5	7.7 J	*	N/A	N/A		
	Lithium	Null	mg/kg	17.1 J	N/A	0.10 U	N/A	15.9 J	19.7 J	16.4 J	11	0.23 U	*	N/A	N/A	
	Magnesium	9900	mg/kg	3490 J	N/A	894 J	N/A	4160 J	4300 J	3000 J	3350	2310 J	*	N/A	N/A	
	Manganese	3000	mg/kg	957 J	N/A	291 J	N/A	1120 J	768 J	1790 J	747	291 J	*	N/A	N/A	
	Nickel	22.7	mg/kg	28.3 J	N/A	6.2 J	N/A	29.8 J	35 J	26.9 J	24.2	12.5 J	*	N/A	N/A	
	Potassium	14000	mg/kg	1630 J	N/A	582	N/A	1260	1400	971	993	1480	*	N/A	N/A	
	Silica	Null	mg/kg	0.047 U	N/A	0.053 U	N/A	0.044 U	0.037 U	0.049 U	0.05 U	0.076 U	*	N/A	N/A	
	Sodium	Null	mg/kg	28.1 U	N/A	31.7 U	N/A	26.3 U	22.2 U	29.3 U	29.5 U	45 U	*	N/A	N/A	
	Strontium	250	mg/kg	41.4 J	N/A	12 J	N/A	21.6 J	24.1 J	129 J	194 J	49.5 J	*	N/A	N/A	
	Tin	Null	mg/kg	3.1 U	N/A	3.4 U	N/A	2.9 U	2.4 U	3.2 U	4.9 U	*	N/A	N/A		
	Zinc	121	mg/kg	67.7 J	N/A	15.3 J	N/A	73.4 J	87.8 J	92.3 J	79.9 J	44.9 J	*	N/A	N/A	
EPA 7471A	Acetone	Null	mg/kg	0.0024 U	N/A	0.0026 U	N/A	0.0025 U	0.0027 U	0.0031 U	0.005 U	*	N/A	N/A		
EPA 8015	Ethyleneglycol	Null	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	N/A	N/A	
EPA 8260	TPH (C10-C28)	Null	mg/kg	14 U	1150	1.3 U	9.7 J	1.4 U	8.8	22.1	85.5 J	884	*	247	31.4	
	1,1-Dichloroethane	Null	ug/kg	6.6 U	N/A	5.8 U	N/A	6.6 U	5.2 U	6.2 U	3.6 U	12.7 U	*	2.2 U	N/A	
	1,1,1-Dichloroethane	Null	ug/kg	6.6 U	N/A	5.8 U	N/A	6.6 U	5.2 U	6.2 U	3.6 U	12.7 U	*	7.1 U	N/A	
	1,1,1-Trichloroethane	Null	ug/kg	6.6 U	N/A	5.8 U	N/A	6.6 U	5.2 U	6.2 U	3.6 U	12.7 U	*	2.5 U	N/A	
	1,1,2,2-Tetrachloroethane	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2.4 U	N/A	
	1,2-Dichlorobenzene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 UU	*	3 U	N/A	
	1,2-Dichloroethane	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2.5 U	N/A	
	1,2-Dichloroethylene (Total)	Null	ug/kg	13.1 U	N/A	11.6 UJ	N/A	13.2 UJ	10.5 UJ	12.4 UJ	12.4 UJ	3.6 U	25.4 UU	*	9 U	N/A
	1,2-Dichloropropane	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	4.4 U	N/A	
	1,2-Dichloroethylene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	3.5 U	N/A	
	1,4-Dichlorobenzene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	3.5 U	N/A	
	2-Butanone (MEK)	Null	ug/kg	13.1 UJ	N/A	11.6 UJ	N/A	13.2 UJ	10.5 UJ	12.4 UJ	17.3 U	25.4 UU	*	3.2 U	N/A	
	2-Hexanone	Null	ug/kg	13.1 UJ	N/A	11.6 UJ	N/A	13.2 UJ	10.5 UJ	12.4 UJ	17.1 U	25.4 UU	*	3.2 U	N/A	
	Acetone	9.9	ug/kg	13.1 U	2490	10.9 U	2.5 U	13.2 U	10.5 U	12.4 U	7.19 U	16900	*	5.4 U	2.4 U	
	Benzene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	1.4 U	12.7 U	*	2.1 U	N/A	
	Bromochloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.6 U	N/A	*	N/A	N/A	
	Bromodichloromethane	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	5 U	N/A	
	Bromoform	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	6.9 U	N/A	
	Bromoform	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	8.1 U	N/A	
	Carbon disulfide	23.0	ug/kg	63.0 U	N/A	59.0 U	N/A	63.0 U	52.0 U	62.0 U	3.6 U	12.7 U	*	2.3 U	N/A	
	Carbon tetrachloride	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2.4 U	N/A	
	Chlorobenzene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2.7 U	N/A	
	Chloroethane	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	4.5 U	N/A	
	Chloroform	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2 U	N/A	
	Chloromethane	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2.9 U	N/A	
	cis-1,2-Dichloroethene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	6.8 U	N/A	
	cis-1,3-Dichloropropene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	4.3 U	N/A	
	Dibromochloromethane	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	4.2 U	N/A	
	Ethylbenzene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	7.1 U	N/A	
	methylcyclohexane	433	ug/kg	13.1 U	N/A	11.6 UJ	N/A	13.2 UJ	10.5 UJ	12.4 UJ	13.6 U	25.4 UU	*	5.3 U	N/A	
EPA 8270	METHYL SOUBUTYL KETONE	Null	ug/kg	13.1 U	N/A	11.6 UJ	N/A	13.2 UJ	10.5 UJ	12.4 UJ	13.7 U	25.4 UU	*	2.8 U	N/A	
	Methyl tert-butyl ether	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	3 U	N/A	
	Methylene Chloride	159	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	14.4 U	14.4 U	*	25	N/A	
	o-Xylene	433	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	3.1 U	N/A	
	Styrene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2 U	N/A	
	Tetrachloroethene	990	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	1.8 U	N/A	
	Toluene	1220	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	19.4 U	N/A	
	TOTAL BTX	Null	ug/kg	39.3 U	N/A	34.9 U	N/A	39.6 U	31.5 U	37.1 U	N/A	76.1 U	N/A	19.4 U	N/A	
	trans-1,2-Dichloroethene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2.2 U	N/A	
	trans-1,3-Dichloropropene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	4.5 U	N/A	
	Toluene	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2.1 U	N/A	
	Vinyl chloride	Null	ug/kg	6.6 UJ	N/A	5.8 UJ	N/A	6.6 UJ	5.2 UJ	6.2 UJ	3.6 U	12.7 U	*	2.2 U	N/A	
	Vinyl Xylene	433	ug/kg	19.7 U	N/A	17.5 U	N/A	19.8 U	15.7 U	18.6 U	7.2 U	39 U	*	8.4 U	N/A	
	2-Methylbenzene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	226 U	*	N/A	N/A	
	1,2,4-Trichlorobenzene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	225 U	*	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	225 U	*	N/A	N/A	
	1,4-Dichlorobenzene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	225 U	*	N/A	N/A	
	2-Chlorophenol	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	225 U	*	N/A	N/A	
	2-Methylnaphthalene	20.2	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	22				

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW17							SW18						
				August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample		
ASTM D516-90,02	Sulfate	Null	ug/L	N/A	N/A	N/A	N/A	1000 U	1000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ASTM D2974-87	Percent Moisture	Null	%	28.3	49.7	21.6	21.5	19.2	20.8	24	21.7	26.6	21.8	20.4	21.1		
EPA 300.0	Bromide	Null	ug/L	N/A	N/A	N/A	N/A	310 U	310 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 6010B	Fluoride	Null	ug/L	N/A	N/A	N/A	N/A	110	130 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Aluminum	53000	mg/kg	N/A	N/A	N/A	N/A	16400 J	14200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Antimony	Null	ug/kg	N/A	N/A	N/A	N/A	0.3 UJ	0.3 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Arsenic	9.79	mg/kg	N/A	N/A	N/A	N/A	6.6 J	12.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Barium	360	mg/kg	N/A	N/A	N/A	N/A	537 J	260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Beryllium	0.8	mg/kg	N/A	N/A	N/A	N/A	1.1	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cadmium	0.99	mg/kg	N/A	N/A	N/A	N/A	0.032 U	0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Calcium	27000	mg/kg	N/A	N/A	N/A	N/A	3140 J	3740	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chromium	43.4	mg/kg	N/A	N/A	N/A	N/A	207 J	28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cobalt	50	mg/kg	N/A	N/A	N/A	N/A	27 J	19.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Copper	31.6	mg/kg	N/A	N/A	N/A	N/A	28.8 J	38.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Iron	51000	mg/kg	N/A	N/A	N/A	N/A	42300 J	52900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lead	35.6	mg/kg	N/A	N/A	N/A	N/A	22 J	19.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lithium	Null	mg/kg	N/A	N/A	N/A	N/A	21.4 J	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Magnesium	9900	mg/kg	N/A	N/A	N/A	N/A	5300 J	3860	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Manganese	3000	mg/kg	N/A	N/A	N/A	N/A	2180 J	1560	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nickel	22.7	mg/kg	N/A	N/A	N/A	N/A	36.2 J	27.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Potassium	14000	mg/kg	N/A	N/A	N/A	N/A	1930	1590	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Silica	Null	mg/kg	N/A	N/A	N/A	N/A	0.043 U	0.044 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sodium	Null	mg/kg	N/A	N/A	N/A	N/A	25.4 U	25.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Strontium	250	mg/kg	N/A	N/A	N/A	N/A	31.9 J	63.6 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tin	Null	mg/kg	N/A	N/A	N/A	N/A	2.8 U	2.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Zinc	121	mg/kg	N/A	N/A	N/A	N/A	86.9 J	79.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 7471A	Mercury	Null	mg/kg	N/A	N/A	N/A	N/A	0.0025 U	0.0026 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8015	Ethyleneglycol	Null	mg/kg	N/A	N/A	N/A	N/A	63.0 U	63.0 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8260	TPH (C10-C28)	Null	mg/kg	17.6	21.1 U	10.5 J	1.4 U	15.2	6.3 U	11.9	18.4	13.1 J	1.4 U	15	9.5		
	1,1-Dichloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.0 U	3.2 U	1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1-Dichloroethene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	3.3 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,1-Trichloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,1,2,2-Tetrachloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 UJ	3.2 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloroethylene (Total)	Null	ug/kg	N/A	N/A	N/A	N/A	11.5 UJ	3.2 U	4.2 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloropropane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	2.1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichloroethene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	3.2 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,4-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.5 U	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Butanone (MEK)	Null	ug/kg	N/A	N/A	N/A	N/A	11.5 U	15.1 J	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Hexanone	Null	ug/kg	N/A	N/A	N/A	N/A	63.1 U	15.0 U	1.5 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Acetone	9.9	ug/kg	2.2 U	22.8	30.7	2.4 U	205	63.1 U	2.5 U	2.1 U	2.3 U	2.2 U	16.8	2.3 U		
	Benzene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	1.3 U	0.99 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromochloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	3.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromodichloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	2.3 U	N/A	N/A	N/A	N/A	N/A	N/A	
EPA 8270	Bromoform	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	3.2 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromomethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	3.7 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbon disulfide	23.0	ug/kg	N/A	N/A	N/A	N/A	5.8 U	6.3 U	0.97 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Carbon tetrachloride	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Chlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	2.1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloroform	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	0.9 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A	
	cis-1,2-Dichloroethene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	cis-1,3-Dichloropropene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	2.0 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibromochloromethane	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Ethylbenzene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	3.3 U	N/A	N/A	N/A	N/A	N/A	N/A	
	m-xylene	433	ug/kg	N/A	N/A	N/A	N/A	11.5 U	3.2 U	2.4 U	N/A	N/A	N/A	N/A	N/A	N/A	
	METHYL SOBUTYL KETONE	Null	ug/kg	N/A	N/A	N/A	N/A	11.5 U	15.1 U	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Methyl tert-butyl ether	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	0.9 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Methylene Chloride	159	ug/kg	N/A	N/A	N/A	N/A	5.8 U	12.6 U	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A	
	o-Xylene	433	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Styrene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetrachloroethene	990	ug/kg	N/A	N/A	N/A	N/A	5.8 U	2.1 U	0.92 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Toluene	1220	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	0.81 U	N/A	N/A	N/A	N/A	N/A	N/A	
TOTAL BTEX	TOTAL BTEX	Null	ug/kg	N/A	N/A	N/A	N/A	34.5 U	N/A	8.9 U	N/A	N/A	N/A	N/A	N/A	N/A	
	trans-1,2-Dichloroethene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	trans-1,3-Dichloropropene	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1.06 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetrahydrofuran	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Vinyl chloride	Null	ug/kg	N/A	N/A	N/A	N/A	5.8 U	3.2 U	1 U	N/A	N/A	N/A	N/A	N/A	N/A	
	Xylene (Total)	433	ug/kg	N/A	N/A	N/A	N/A	17.3 U	6.3 U	3.9 U	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,2,4-Trichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,4-Dichlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Chlorophenol	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Methylnaphthalene	20.2	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Methylphenol(o-Cresol)	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Nitroaniline	Null	ug/kg	N/A	N/A	N/A	N/A	1030 U	1010 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,2-Oxybis[1-chloropropane]	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dichlorophenol	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dimethylphenol	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2,4-Dinitrophenol	Null	ug/kg	N/A	N/A	N/A	N/A	1030 U	2010 U	N/A	N/A	N/A					

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW19				SW20				SW21			
				July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 21, 2014 Field Sample	July 30, 2014 Field Sample	August 12, 2014 Field Sample	August 14, 2014 Field Sample	August 23, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	October 17, 2014 Field Sample	July 2, 2014 Field Sample
ASTM D516-90,02	Sulfate	Null	ug/L	1000 U	1000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1000 U
ASTM D2974-87	Percent Moisture	Null	%	19.5	75.5	20.5	23.8	26.1	19.2	31.8	44.7	18.2	22.7	22.9	22.1
EPA 300.0	Bromide	Null	ug/L	310 U	310 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	310 U
	Aluminum	530000	mg/kg	18200 J	15800 J	11400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16800 J
	Antimony	Null	ug/kg	0.030 U	1.3 U	0.27 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.20 U
	Arsenic	9.79	mg/kg	4.7 J	9.6 J	8.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.5 J
	Barium	360	mg/kg	199 J	203 J	148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	169 J
	Beryllium	0.8	mg/kg	1.2	1.1	0.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.3
	Cadmium	0.99	mg/kg	0.035 U	0.13 U	0.029 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.031 U
	Calcium	27000	mg/kg	3210 J	3600 J	2140	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3370 J
	Chromium	43.4	mg/kg	26.2 J	21.9 J	21.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.3 J
	Cobalt	50	mg/kg	17.8 J	11.2 J	13.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.8 J
EPA 6010B	Copper	31.6	mg/kg	25.4 J	23.6 J	25.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27.2 J
	Iron	51000	mg/kg	37100 J	24100 J	39700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35300 J
	Lead	35.6	mg/kg	13.0 J	22.6 J	17.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.2 J
	Lithium	Null	mg/kg	25.4 J	6.5 U	16.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24 J
	Magnesium	9900	mg/kg	6550 J	3200 J	3440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5240 J
	Manganese	3000	mg/kg	929 J	539 J	549	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	979 J
	Nickel	22.7	mg/kg	33.5 J	23.8 J	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.3 J
	Potassium	14000	mg/kg	1590	2370	1150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1510
	Silica	Null	mg/kg	0.048 U	0.18 U	0.039 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.042 U
	Sodium	Null	mg/kg	28.5 U	107 U	23.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.7 U
	Strontium	250	mg/kg	25.3 J	114 J	24.9 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.8 J
	Tin	Null	mg/kg	3.1 U	11.7 U	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.7 U
	Zinc	121	mg/kg	87.8 J	60.2 J	63.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	72.8 J
EPA 7471A	Acetone	Null	mg/kg	0.0024 U	0.0025 U	0.0025 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0026 U
EPA 8015	Ethyleneglycol	Null	mg/kg	N/A	632 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	mg/kg	1.3 U	13.1 U	6.3 U	10.2 J	9.8	17 J	34.2	45.1	13.9	14.4 U	14.4 U	103 U
	1,1-Dichloroethane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	1,1,1-Trichloroethane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	1,1,2,2-Tetrachloroethane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	1,2-Dichlorobenzene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	1,2-Dichloroethane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	1,2-Dichloroethylene (Total)	Null	ug/kg	11.2 U	39.7 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11 U
	1,2-Dichloropropane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	1,2-Dichloroethylene	Null	ug/kg	N/A	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	1,4-Dichlorobenzene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
EPA 8260	2-Butanone (MEK)	Null	ug/kg	11.2 U	39.7 U	15.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11 UJ
	2-Hexanone	Null	ug/kg	11.2 U	39.7 U	62.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11 UJ
	Acetone	9.9	ug/kg	11.2 U	68.1	62.9 U	1.9 U	2.7 U	14.4	24 U	3.3 U	2.3 U	20.5	2.2 U	639 U
	Benzene	Null	ug/kg	5.6 U	19.8 U	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 UJ
	Bromochloromethane	Null	ug/kg	N/A	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bromodichloromethane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 UJ
	Bromoform	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 UJ
	Bromoform	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 UJ
	Carbon disulfide	23.0	ug/kg	53.0 U	19.0 U	6.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.0 U
	Carbon tetrachloride	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 UJ
	Chlorobenzene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 UJ
	Chloroethane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Chloroform	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Chloromethane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	cis-1,2-Dichloroethene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	cis-1,3-Dichloropropene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Dibromochloromethane	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Ethylbenzene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	methylbenzene	433	ug/kg	11.2 U	39.7 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11 UJ
	METHYL SOBUTYL KETONE	Null	ug/kg	11.2 U	39.7 U	15.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11 UJ
	Methyl tert-butyl ether	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Methylene Chloride	159	ug/kg	5.6 U	19.8 U	12.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	o-Xylene	433	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Styrene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Tetrachloroethene	990	ug/kg	5.6 U	19.8 U	2.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Toluene	1220	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	TOTAL BTX	Null	ug/kg	33.6 U	119 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.9 U
	trans-1,2-Dichloroethene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	trans-1,3-Dichloropropene	Null	ug/kg	5.6 U	19.8 U	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Toluene	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Vinyl chloride	Null	ug/kg	5.6 U	19.8 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5 U
	Xylene (Total)	433	ug/kg	16.0 U	55.5 U	6.3 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.4 U
EPA 8270	1,2-Dichlorobenzene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	1,2,4-Trichlorobenzene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	1,3-Dichlorobenzene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	1,4-Dichlorobenzene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2-Chlorophenol	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2-Chlorophenol	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2-Methylnaphthalene	20.2	ug/kg	406 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2-Methylphenol(o-Cresol)	Null	ug/kg	406 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2-Nitroaniline	Null	ug/kg	1010 U	3370 U	997 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1070 U
	2,2-bis[4-chlorophenyl]hexa	Null	ug/kg	406 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2,2-oxabicyclo[2.2.1]heptane	Null	ug/kg	406 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2,4-Dichlorophenol	Null	ug/kg	406 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2,4-Dimethylphenol	Null	ug/kg	406 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2,4-Dinitrophenol	Null	ug/kg	1010 U	3370 U	1990 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1070 U
	2,4-Dinitrophenol	Null	ug/kg	406 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2,4,5-Trichlorophenol	Null	ug/kg	1010 U	3370 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	2,4,6-Trichlorophenol	Null	ug/kg	406 U	1350 U	206 U</td									

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21			SW21T			SW22			SW23		SW24	
				July 2, 2014 Field Duplicate	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	Field Duplicate	August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample	July 2, 2014 Field Sample	August 13, 2014 Field Sample	July 9, 2014 Field Sample	
ASTM D516-90,02	Sulfate	Null	ug/L	1000 U	1000 U	N/A	N/A	N/A	N/A	N/A	N/A	1000 U	N/A	1000 UJ	1000 UJ	
ASTM D2974-87	Percent Moisture	Null	%	21.1	28.3	31.1	27.3	26.7	28.1	25.1	21	21.9	26.2	30.2	15.4	
EPA 300.0	Bromide	Null	ug/L	310 U	310 U	N/A	N/A	N/A	N/A	N/A	N/A	310 U	N/A	310 U	310 U	
	Aluminum	530000	mg/kg	11500 J	17300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10500 J	N/A	14900	
	Antimony	Null	ug/kg	0.36 UJ	0.31 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.31 UJ	N/A	0.30 UJ	
	Arsenic	9.79	mg/kg	13.9 J	13.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.5 J	N/A	15.7	
	Barium	360	mg/kg	118 J	201	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99.8 J	N/A	137 J	
	Beryllium	0.8	mg/kg	1	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A	0.98	
	Cadmium	0.99	mg/kg	0.038 U	0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.033 U	N/A	0.03 U	
	Calcium	27000	mg/kg	4370 J	4900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7110 J	N/A	4620	
	Chromium	43.4	mg/kg	19.7 J	30.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.1 J	N/A	22.5	
	Cobalt	50	mg/kg	14.9 J	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.8 J	N/A	18.4	
EPA 6010B	Copper	31.6	mg/kg	20.2 J	27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.6 J	N/A	20.8	
	Iron	51000	mg/kg	30100 J	43500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32200 J	N/A	27100	
	Lead	35.6	mg/kg	20	28.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.3 J	N/A	17.7	
	Lithium	Null	mg/kg	13.3 J	22.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17 J	N/A	16.5 J	
	Magnesium	9900	mg/kg	2810 J	5360	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3440 J	N/A	3530 J	
	Manganese	3000	mg/kg	94.7 J	1680	N/A	N/A	N/A	N/A	N/A	N/A	N/A	669 J	N/A	735	
	Nickel	22.7	mg/kg	20.3 J	35.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23.4 J	N/A	22.5	
	Potassium	14000	mg/kg	1380	1690	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1270	N/A	1500	
	Silica	Null	mg/kg	0.052 U	0.045 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.045 U	N/A	0.041 U	
	Sodium	Null	mg/kg	30.8 U	26.6 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.8 U	N/A	24.2 U	
	Strontium	250	mg/kg	44.7 J	41.2 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	33.2 J	N/A	33	
	Tin	Null	mg/kg	3.4 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U	N/A	2.6 U	
	Zinc	121	mg/kg	44.1 J	77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	67.7 J	N/A	51.4 J	
EPA 7471A	Mercury	Null	mg/kg	0.0026 U	0.0028 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0028 U	N/A	0.0024 U	
EPA 8015	Ethyleneglycol	Null	mg/kg	N/A	69.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	55.7 U	N/A	
	TPH (C10-C28)	Null	mg/kg	95.4	22.5	63.7	32.3	28.7	52.3	34.7 J	10.7	10.1	37.1	0.5 J	10.9	
EPA 8260	1,1-Dichloroethane	Null	ug/kg	5.5 U	3.5 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 U	N/A	7.2 U	
	1,1,1-Trichloroethane	Null	ug/kg	5.5 U	3.5 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 U	N/A	7.3 U	
	1,1,2,2-Tetrachloroethane	Null	ug/kg	5.5 U	3.5 U	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 U	N/A	8.1 U	
	1,2-Dichlorobenzene	Null	ug/kg	5.5 UU	3.5 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	7.9 U	
	1,2-Dichloroethane	Null	ug/kg	5.5 U	3.5 U	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 U	N/A	8.0 U	
	1,2-Dichloroethylene (Total)	Null	ug/kg	11 UU	3.5 U	4.5 U	N/A	N/A	N/A	N/A	N/A	N/A	13.2 UU	N/A	2.9 U	
	1,2-Dichloropropane	Null	ug/kg	5.5 U	3.5 U	2.2 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 U	N/A	1.4 U	
	1,2-Dichloroethylene	Null	ug/kg	N/A	3.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1,3-Dichlorobenzene	Null	ug/kg	5.5 U	3.5 U	1.0 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	1.1 U	
	1,4-Dichlorobenzene	Null	ug/kg	5.5 U	3.5 U	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	1.1 U	
	2-Butanone (MEK)	Null	ug/kg	11 UU	16.7 U	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A	13.2 UU	N/A	1.1 U	
	2-Hexanone	Null	ug/kg	11 UU	69.8 U	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A	13.2 UU	N/A	1 U	
	Acetone	9.9	ug/kg	604 U	69.8 U	2.7 U	2.4 U	2.6 U	2.5 U	2.1 U	14.2	2.3 U	13.2 U	2.4 U	N/A	
	Benzene	Null	ug/kg	5.5 U	1.4 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.69 U	
	Bromochloromethane	Null	ug/kg	N/A	3.5 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bromodichloromethane	Null	ug/kg	5.5 U	3.5 U	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	1.6 U	
	Bromoform	Null	ug/kg	5.5 U	3.5 U	3.5 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	2.2 U	
	Bromoethane	Null	ug/kg	5.5 U	3.5 U	4.1 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	2.6 U	
	Carbon disulfide	23.0	ug/kg	53.0	7.0	1.0 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.68 U	
	Carbon tetrachloride	Null	ug/kg	5.5 U	3.5 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.79 U	
	Chlorobenzene	Null	ug/kg	5.5 U	3.5 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.88 U	
	Chloroethane	Null	ug/kg	5.5 U	3.5 U	2.3 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 U	N/A	1.4 U	
	Chloroform	Null	ug/kg	5.5 U	3.5 U	0.98 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 U	N/A	0.63 U	
	Chloromethane	Null	ug/kg	5.5 U	3.5 U	1.5 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 U	N/A	0.93 U	
	cis-1,2-Dichloroethene	Null	ug/kg	5.5 U	3.5 U	3.4 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	2.2 U	
	cis-1,3-Dichloropropene	Null	ug/kg	5.5 U	3.5 U	2.2 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	1.4 U	
	Dibromochloromethane	Null	ug/kg	5.5 U	3.5 U	2.1 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	1.4 U	
	Ethylbenzene	Null	ug/kg	5.5 U	3.5 U	3.6 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	2.3 U	
	m-xylene	433	ug/kg	11 UU	3.5 U	2.7 U	N/A	N/A	N/A	N/A	N/A	N/A	13.2 UU	N/A	1.7 U	
	METHYL SOBOUBI-KETONE	Null	ug/kg	11 UU	16.0 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	13.2 UU	N/A	0.91 U	
	Methyl tert-butyl ether	Null	ug/kg	5.5 U	3.6 U	0.98 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.63 U	
	Methylene Chloride	159	ug/kg	5.5 U	58.3	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	1.2 U	
	o-Xylene	433	ug/kg	5.5 U	3.5 U	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	1 U	
	Styrene	Null	ug/kg	5.5 U	3.5 U	1.5 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.98 U	
	Tetrachloroethene	990	ug/kg	5.5 U	2.4 U	1 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.64 U	
	TOTAL BTX	Null	ug/kg	32.9 U	N/A	9.7 U	N/A	N/A	N/A	N/A	N/A	N/A	39.7 U	N/A	6.2 U	
	trans-1,2-Dichloroethene	Null	ug/kg	5.5 U	3.5 U	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.72 U	
	trans-1,3-Dichloropropene	Null	ug/kg	5.5 U	3.5 U	2.3 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	1.4 U	
	Toluene	Null	ug/kg	5.5 U	3.5 U	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.67 U	
	Vinyl chloride	Null	ug/kg	N/A	5.5 U	3.5 U	1.1 U	N/A	N/A	N/A	N/A	N/A	6.6 UU	N/A	0.7 U	
	Xylene (Total)	433	ug/kg	164 U	7 U	4.2 U	N/A	N/A	N/A	N/A	N/A	N/A	19.9 UJ	N/A	2.7 U	
EPA 8270	1,2-Dichlorobenzene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	57.8 U	
	1,2,4-Trichlorobenzene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	59.6 U	
	1,3-Dichlorobenzene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	64.6 U	
	1,4-Dichlorobenzene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	54.8 U	
	2-Chlorophenanthrene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	40.9 U	
	2-Chlorophenol	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	49.7 U	
	2-Methylnaphthalene	20.2	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	47 U	
	2-Methylphenol(o-Cresol)	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	68.6 U	
	2-Nitroaniline	Null	ug/kg	1040 U	1110 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2250 U	N/A	45.7 U	
	2,2-Dinitropropane	Null	ug/kg	117 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	41.7 U	
	2,2-oxabutylchloropropane	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	51.6 U	
	2,4-Dichlorophenol	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	66.8 U	
	2,4-Dimethylphenol	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	68.7 U	
	2,4-Dinitrophenol	Null	ug/kg	1040 U	2210 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2250 U	N/A	353 U	
	2,4-Dinitrotoluene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	81.4 U	
	2,4,5-Trichlorophenol	Null	ug/kg	1040 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2250 U	N/A	115 U	
	2,4,6-Trichlorophenol	Null	ug/kg	417 U	228 U	N/A	N									

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24				SW25T				
				July 10, 2014 Field Sample	July 28, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	August 13, 2014 Field Sample	Field Duplicate	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample
ASTM D516-90,02	Sulfate	Null	ug/L	1000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASTM D2974-87	Percent Moisture	Null	%	38.5	31.3	32.7	28.8	24.9	31	26.1	17.1	24.7
EPA 300.0	Bromide	Null	ug/L	310 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 6010B	Fluoride	Null	ug/L	220 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Aluminum	530000	mg/kg	15200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Antimony	Null	mg/kg	0.043 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Arsenic	9.79	mg/kg	9.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Barium	360	mg/kg	173	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beryllium	0.8	mg/kg	1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cadmium	0.99	mg/kg	0.043 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Calcium	27000	mg/kg	5310	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chromium	43.4	mg/kg	22.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Cobalt	50	mg/kg	15.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Copper	31.6	mg/kg	22.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iron	51000	mg/kg	24300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lead	35.6	mg/kg	22	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lithium	Null	mg/kg	15.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Magnesium	9900	mg/kg	3200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manganese	3000	mg/kg	1150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nickel	22.7	mg/kg	21.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Potassium	14000	mg/kg	1990	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Silica	Null	mg/kg	0.058 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7471A	Sodium	Null	mg/kg	34.7 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8015	Strontium	250	mg/kg	37.1 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tin	Null	mg/kg	3.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Zinc	121	mg/kg	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Mercury	Null	mg/kg	0.0005 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ethyleneglycol	Null	mg/kg	50.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPH (C10-C28)	Null	mg/kg	497 J	107	18.2	13	156	30.2	14 U	12.2 J	1.4 U
EPA 8260	1,1-Dichloroethane	Null	ug/kg	4.1 U	N/A	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,1-Dichloroethene	Null	ug/kg	4.1 U	N/A	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,1-Trichloroethane	Null	ug/kg	4.1 U	N/A	4.1 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2-Trichloroethane	Null	ug/kg	4.1 U	N/A	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,1,2,2-Tetrachloroethane	Null	ug/kg	4.1 U	N/A	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/kg	4.1 U	N/A	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethane	Null	ug/kg	4.1 U	N/A	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethylene (Total)	Null	ug/kg	4.1 U	N/A	5.2 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloropropane	Null	ug/kg	4.1 U	N/A	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichloroethene	Null	ug/kg	4.1 U	N/A	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/kg	4.1 U	N/A	2 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/kg	4.1 U	N/A	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A
	2-Butanone (MEK)	Null	ug/kg	19.5 U	N/A	2 U	N/A	N/A	N/A	N/A	N/A	N/A
	2-Hexanone	Null	ug/kg	81.3 U	N/A	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A
	Acetone	9.9	ug/kg	5290	2.6 U	3.1 U	2.6 U	116	2.4 U	2.7 U	21.2	2.4 U
	Benzene	Null	ug/kg	1.6 U	N/A	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A
	Bromoform	Null	ug/kg	4.1 U	N/A	2.8 U	N/A	N/A	N/A	N/A	N/A	N/A
	Bromomethane	Null	ug/kg	4.1 U	N/A	4 U	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon disulfide	23.9	ug/kg	8.1 U	N/A	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon tetrachloride	Null	ug/kg	4.1 U	N/A	1.4 U	N/A	N/A	N/A	N/A	N/A	N/A
	Chlorobenzene	Null	ug/kg	4.1 U	N/A	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroethane	Null	ug/kg	4.1 U	N/A	2.6 U	N/A	N/A	N/A	N/A	N/A	N/A
	Chloroform	Null	ug/kg	4.1 U	N/A	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A
	Chloromethane	Null	ug/kg	4.1 U	N/A	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,2-Dichloroethene	Null	ug/kg	4.1 U	N/A	3.9 U	N/A	N/A	N/A	N/A	N/A	N/A
	cis-1,3-Dichloropropene	Null	ug/kg	4.1 U	N/A	2.5 U	N/A	N/A	N/A	N/A	N/A	N/A
	Dibromochloromethane	Null	ug/kg	4.1 U	N/A	2.4 U	N/A	N/A	N/A	N/A	N/A	N/A
	Ethylbenzene	Null	ug/kg	4.1 U	N/A	4 U	N/A	N/A	N/A	N/A	N/A	N/A
	m-xylene	433	ug/kg	4.1 U	N/A	3 U	N/A	N/A	N/A	N/A	N/A	N/A
	METHYL SOBOUBU, KETONE	Null	ug/kg	19.5 U	N/A	1.6 U	N/A	N/A	N/A	N/A	N/A	N/A
	Methyl tert-butyl ether	Null	ug/kg	4.1 U	N/A	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A
	Methylene Chloride	159	ug/kg	16.3 U	N/A	2.1 U	N/A	N/A	N/A	N/A	N/A	N/A
	o-Xylene	433	ug/kg	4.1 U	N/A	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A
	Styrene	Null	ug/kg	4.1 U	N/A	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A
	Tetrachloroethene	990	ug/kg	553 J	N/A	1.1 U	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	1220	ug/kg	4.1 U	N/A	1 U	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL BTX	Null	ug/kg	N/A	N/A	11.1 U	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,2-Dichloroethene	Null	ug/kg	4.1 U	N/A	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A
	trans-1,3-Dichloropropene	Null	ug/kg	4.1 U	N/A	2.6 U	N/A	N/A	N/A	N/A	N/A	N/A
	Toluene	Null	ug/kg	1.6 U	N/A	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A
	Vinyl chloride	Null	ug/kg	4.1 U	N/A	1.3 U	N/A	N/A	N/A	N/A	N/A	N/A
	Xylene (Total)	433	ug/kg	8.1 U	N/A	4.8 U	N/A	N/A	N/A	N/A	N/A	N/A
	1,2-Dichlorobenzene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,2,4-Trichlorobenzene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,3-Dichlorobenzene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1,4-Dichlorobenzene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Chlorophenol	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylnaphthalene	20.2	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Methylphenol(o-Cresol)	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-Nitroaniline	Null	ug/kg	1280 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2'-oxybis[1-chloropropane]	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dichlorophenol	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dimethylphenol	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrophenol	Null	ug/kg	2570 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4-Dinitrotoluene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,5-Trichlorophenol	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,6-Trichlorophenol	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,6-Dinitrotoluene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Nitroaniline	Null	ug/kg	1280 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3,3'-Dichlorobenzidine	Null	ug/kg	530 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 8270	384-Methylphenol(m&p Cresol)	Null	ug/kg	530 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD11				SW04				September 1, 2014 Field Sample	September 4, 2014 Field Sample	October 17, 2014 Field Sample	
				July 12, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 21, 2014 Field Sample	July 30, 2014 Field Sample	August 12, 2014 Field Sample	August 14, 2014 Field Sample	August 23, 2014 Field Sample				
EPA 8270	4-Bromophenyl phenyl ether	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methylphenol	Null	ug/kg	326 U	450 U	451 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/kg	326 U	450 U	451 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/kg	789 U	1130 U	1050 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitro-2-methylphenol	Null	ug/kg	789 U	1130 U	1050 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(g,h,i)perylene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(k)fluoranthene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(a)anthracene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(a)pyrene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/kg	326 U	450 U	451 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chlorodimethyl) methane	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/kg	326 U	450 U	451 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-cd]pyrene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isophorone	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GCAL SOP HPLC-0.. SM 2320B	N-Nitrosodi-n-propylamine	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/kg	1630 U	1130 U	2100 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500	Pyrene	Null	ug/kg	163 U	450 U	225 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TTC	Null	ug/kg	158 U	N/A	142 U	73 U	93 U	113 U	94.1 U	139 U	130 U	72.3 U	125 U	74.2 U
	Alkalinity, Carbonate (CaCO3)	ug/L	10000 U	10000 U	10000 U	10000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	ug/L	7200	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
	Cyanide	ug/L	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	ug/L	49 U	49 U	49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	ug/L	1.8 U	1.8 U	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SM 4500	Phosphorus	ug/L	39	21 U	21 U	21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfide	ug/L	760 U	760 U	760 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	ug/L	25 U	25 U	25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW06							SW07			SW08		
				July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample	July 10, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 21, 2014 Field Sample	
EPA 8270	4-Bromophenyl phenyl ether	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	4-Chloro-3-methylphenol	Null	ug/kg	500 U	649 U	N/A	N/A	N/A	N/A	N/A	N/A	412 U	1720 U	851 U	N/A	
	4-Chloroaniline	Null	ug/kg	500 U	649 U	N/A	N/A	N/A	N/A	N/A	N/A	412 U	1720 U	851 U	N/A	
	4-Chlorophenyl phenyl ether	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	4-Nitrophenol	Null	ug/kg	500 U	1250 U	1570 U	N/A	N/A	N/A	N/A	N/A	999 U	4300 U	2060 U	N/A	
	4,6-Dinitro-2-methylphenol	Null	ug/kg	1250 U	1570 U	N/A	N/A	N/A	N/A	N/A	N/A	999 U	4300 U	2060 U	N/A	
	Acenaphthene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Acenaphthylene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Anthracene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Benzol(b)fluoranthene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Benzol(g,h,i)perylene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Benzol(a)anthracene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Benzol(a)pyrene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Benzol(b)fluoranthene	Null	ug/kg	500 U	649 U	N/A	N/A	N/A	N/A	N/A	N/A	412 U	1720 U	851 U	N/A	
	Bis(2-chlorodimethyl) methane	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Bis(2-chloroethyl)ether	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Bis(2-ethylhexyl) phthalate	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Butyl benzyl phthalate	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Chrysene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Di-n-butyl phthalate	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Di-n-octyl phthalate	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Dibenz(a,h)anthracene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Dibenzofuran	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Diethyl phthalate	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Dimethyl phthalate	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Fluoranthene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Fluorene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Hexachloro-1,3-butadiene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Hexachlorobenzene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Hexachlorocyclopentadiene	Null	ug/kg	500 U	649 U	N/A	N/A	N/A	N/A	N/A	N/A	412 U	1720 U	851 U	N/A	
	Hexachloroethane	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Indeno[1,2,3-cd]pyrene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Isophorone	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	N-Nitrosodi-n-propylamine	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	N-Nitrosodimethylamine	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Naphthalene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Nitrobenzene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Pentachlorophenol	Null	ug/kg	1250 U	3150 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Phenanthrene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Phenol	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	Pyrene	Null	ug/kg	500 U	325 U	N/A	N/A	N/A	N/A	N/A	N/A	206 U	1720 U	425 U	N/A	
	TTC	Null	ug/kg	N/A	*	94.7 U	68.1 U	84.6 U	70.3 U	72 U	66.6 U	N/A	N/A	*	143 U	
GCAL SOP HPLC-0.. SM 2320B	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	10000 U	N/A	N/A	N/A	N/A	N/A	N/A	10000 U	10000 U	10000 U	N/A	
	Chloride	Null	ug/L	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	
	Cyanide	Null	ug/L	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U	2.9 U	2.9 U	N/A	
	Nitrate as N	Null	ug/L	49 U	49 U	N/A	N/A	N/A	N/A	N/A	N/A	49 U	49 U	49 U	N/A	
	Nitrite as N	Null	ug/L	1.8 U	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	1.8 U	1.8 U	20	N/A	
	Phosphorus	Null	ug/L	40	41	N/A	N/A	N/A	N/A	N/A	N/A	180	21 U	21 U	N/A	
	Sulfide	Null	ug/L	760 U	760 U	N/A	N/A	N/A	N/A	N/A	N/A	760 U	1000 U	760 U	N/A	
	Thiocyanate	Null	ug/L	25 U	25 U	N/A	N/A	N/A	N/A	N/A	N/A	25 U	25 U	25 U	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW08								SW09		SW10	
				July 30, 2014 Field Sample	August 12, 2014 Field Sample	August 14, 2014 Field Sample	August 23, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	Field Duplicate	October 17, 2014 Field Sample	Field Duplicate	July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample
EPA 8270	4-Bromophenyl phenyl ether	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	4-Chloro-3-methylphenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	416 U
	4-Chloroaniline	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	416 U
	4-Chlorophenyl phenyl ether	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	4-Nitrophenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	1010 U
	4,6-Dinitro-2-methylphenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2590 U	1090 U	1010 U
	Acenaphthene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Acenaphthylene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Anthracene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Benzof(b)fluoranthene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Benzog(h,i)perylene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Benzol(k)fluoranthene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Benzol(a)anthracene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Benzol(a)pyrene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Benzol(b)fluoranthene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	416 U
	Bis(2-chlorodifluoro)methane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Bis(2-chloroethyl)ether	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Bis(2-ethylhexyl) phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Butyl benzyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Chrysene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Di-n-butyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Di-n-octyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Dibenzo(a,h)anthracene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Dibenzofuran	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Diethyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Dimethyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Fluorene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Fluoranthene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Hexachloro-1,3-butadiene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Hexachlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Hexachlorocyclopentadiene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	416 U
	Hexachloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Indeno[1,2,3-cd]pyrene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Isophorone	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	N-Nitrosodi-n-propylamine	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	N-Nitrosodimethylamine	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Naphthalene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Nitrobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Pentachlorophenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2590 U	1090 U	2020 U
	Phenanthrene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Phenol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	Pyrene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 U	437 U	208 U
	TTPC	Null	ug/kg	134 U	67.1 U	79.8 U	146 U	116 U	123 U	128 U	121 U	126 U	N/A	N/A	138 U
GCAL SOP HPLC-0.. SM 2320B	Alkalinity, Carbonate (CaCO3)	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10000 U	10000 U	10000 U
	Chloride	Null	ug/L	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U	2.9 U	13
	Nitrate as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49 U	49 U	49 U
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.8 U	1.8 U	1.8 U
	Phosphorus	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21 U	32 U	21 U
	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	760 U	760 U	760 U
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25 U	25 U	25 U

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW11		SW12		SW14		SW15		SW16		SW17		
				July 2, 2014 Field Sample	July 21, 2014 Field Sample	July 2, 2014 Field Sample	August 13, 2014 Field Sample	July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	
EPA 8270	4-Bromophenyl phenyl ether	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	4-Chloro-3-methylphenol	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	473 U	2250 U	*	N/A	N/A	
	4-Chloroaniline	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	473 U	2250 U	*	N/A	N/A	
	4-Chlorophenyl phenyl ether	Null	ug/kg	1050 U	N/A	412 U	1050 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A
	4-Nitrophenol	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A
	4,6-Dinitro-2-methylphenol	Null	ug/kg	1050 U	N/A	1030 U	N/A	1040 U	982 U	1080 U	1150 U	5620 U	*	N/A	N/A	
	Acenaphthene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Acenaphthylene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Anthracene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Benzof(b)fluoranthene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Benzog(h,i)perylene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Benzol(a)anthracene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Benzol(a)pyrene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Benzol(b)fluoranthene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Bis(2-chlorodifluoro)methane	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Bis(2-chloroethyl)ether	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Bis(2-ethylhexyl) phthalate	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Butyl benzyl phthalate	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Chrysene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Di-n-butyl phthalate	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Di-n-octyl phthalate	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Dibenzofuran	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Diethyl phthalate	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Dimethyl phthalate	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Fluorene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Fluoranthene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Hexachloro-1,3-butadiene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Hexachlorobenzene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Hexachlorocyclopentadiene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Hexachloroethane	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Indeno[1,2,3-cd]pyrene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Isophorone	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	N-Nitrosodi-n-propylamine	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	N-Nitrosodimethylamine	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Naphthalene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Nitrobenzene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Pentachlorophenol	Null	ug/kg	1050 U	N/A	1030 U	N/A	1040 U	992 U	1000 U	2260 U	6020 U	*	N/A	N/A	
	Phenanthrene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Phenol	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	Pyrene	Null	ug/kg	420 U	N/A	412 U	N/A	415 U	393 U	432 U	237 U	2250 U	*	N/A	N/A	
	TTC	Null	ug/kg	N/A	135 U	N/A	70 U	N/A	176 U	N/A	176 U	N/A	159 U	82.5 U		
GCAL SOP HPLC-0.. SM 2320B	Alkalinity, Carbonate (CaCO3)	Null	ug/L	10000 U	N/A	10000 U	N/A	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	N/A	
	Chloride	Null	ug/L	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	5900	850 U	850 U	850 U	
	Cyanide	Null	ug/L	2.9 U	N/A	2.9 U	N/A	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	
	Nitrate as N	Null	ug/L	49 U	N/A	49 U	N/A	49 U	49 U	110	49 U	49 U	49 U	49 U	N/A	
	Nitrite as N	Null	ug/L	1.8 U	N/A	1.8 U	N/A	1.7	1.8 U	1.8 U	1.8 U	1.8 U	*	N/A	N/A	
	Phosphorus	Null	ug/L	31	N/A	38	N/A	52	21 U	54	39	58	N/A	N/A	N/A	
	Sulfide	Null	ug/L	760 U	N/A	760 U	N/A	760 U	1000	760 U	1200	760 U	760 U	760 U	N/A	
	Thiocyanate	Null	ug/L	25 U	N/A	25 U	N/A	25 U	N/A	25 U	25 U	25 U	25 U	25 U	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW17				SW18				August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample
				August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample												
EPA 8270	4-Bromophenyl phenyl ether	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chloro-3-methylphenol	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	415 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chloroaniline	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	415 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Chlorophenyl phenyl ether	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	1030 U	1010 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4-Nitrophenol	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4,6-Dinitro-2-methylphenol	Null	ug/kg	N/A	N/A	N/A	N/A	1030 U	1010 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Acenaphthylene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Anthracene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzof(b)fluoranthene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzog(h,i)perylene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol(k)fluoranthene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]anthracene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[a]pyrene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzol[b]anthracene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chlorodifluoro)methane	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	415 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-chlorotetrahydrofuran)	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bis(2-ethylhexyl) phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Butyl benzyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chrysene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Di-n-butyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Di-n-octyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenz(a,h)anthracene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dibenzofuran	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Diethyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dimethyl phthalate	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluorene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Fluoranthene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloro-1,3-butadiene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorocyclopentadiene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	415 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloroethane	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Indeno[1,2,3-cd]pyrene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Isophorone	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N-Nitrosodi-n-propylamine	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N-Nitrosodi-n-propylamine	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrobenzene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pentachlorophenol	Null	ug/kg	N/A	N/A	N/A	N/A	1030 U	2010 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenanthrene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Pyrene	Null	ug/kg	N/A	N/A	N/A	N/A	410 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	TTC	Null	ug/kg	66.9 U	110 U	74 U	69.3 U	N/A	*	70.9 U	65.5 U	68.6 U	69.9 U	65.4 U	65 U								
GCAL SOP HPLC-0.. SM 2320B	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	N/A	N/A	N/A	N/A	10000 U	10000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride	Null	ug/L	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	
	Cyanide	Null	ug/L	N/A	N/A	N/A	N/A	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrate as N	Null	ug/L	N/A	N/A	N/A	N/A	49 U	49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nitrite as N	Null	ug/L	N/A	N/A	N/A	N/A	1.8 U	21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phosphorus	Null	ug/L	N/A	N/A	N/A	N/A	N/A	41	40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Sulfide	Null	ug/L	N/A	N/A	N/A	N/A	N/A	700 U	700 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Thiocyanate	Null	ug/L	N/A	N/A	N/A	N/A	N/A	25 U	25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color
 Detection
 Exceedance
 No Detection

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW19				SW20							
				July 2, 2014 Field Sample	July 2, 2014 Field Sample	July 10, 2014 Field Sample	July 21, 2014 Field Sample	July 30, 2014 Field Sample	August 12, 2014 Field Sample	August 14, 2014 Field Sample	August 23, 2014 Field Sample	September 1, 2014 Field Sample	September 4, 2014 Field Sample	October 17, 2014 Field Sample	July 2, 2014 Field Sample
EPA 8270	4-Bromophenyl phenyl ether	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	4-Chloro-3-methylphenol	Null	ug/kg	408 U	1350 U	411 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	4-Chloroaniline	Null	ug/kg	408 U	1350 U	411 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	4-Chlorophenyl phenyl ether	Null	ug/kg	1010 U	3270 U	997 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1070 U
	4-Nitrophenol	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	4,6-Dinitro-2-methoxyphenol	Null	ug/kg	1010 U	3370 U	997 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1070 U
	Acenaphthene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Acenaphthylene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Anthracene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Benzol(b)fluoranthene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Benzol(g,h,i)perylene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Benzol(a)anthracene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Benzol(a)pyrene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Benzol(b)fluoranthene	Null	ug/kg	408 U	1350 U	411 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Bis(2-chlorodimethyl) methane	Null	ug/kg	408 U	1369 U	208 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Bis(2-chloroethyl)ether	Null	ug/kg	408 U	1360 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Bis(2-ethylhexyl) phthalate	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Butyl benzyl phthalate	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Chrysene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Di-n-butyl phthalate	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Di-n-octyl phthalate	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Dibenz(a,h)anthracene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Dibenzofuran	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Diethyl phthalate	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Dimethyl phthalate	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Fluoranthene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Fluorene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Hexachloro-1,3-butadiene	Null	ug/kg	408 U	1360 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Hexachlorobenzene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Hexachlorocyclopentadiene	Null	ug/kg	408 U	1350 U	411 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Hexachloroethane	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Indeno[1,2,3-cd]pyrene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Isophorone	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	N-Nitrosodi-n-propylamine	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	N-Nitrosodiphenylamine	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Naphthalene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Nitrobenzene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Pentachlorophenol	Null	ug/kg	1010 U	3370 U	1950 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1070 U
	Phenanthrene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Phenol	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	Pyrene	Null	ug/kg	408 U	1350 U	206 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427 U
	TTPC	Null	ug/kg	N/A	122 U	66.1 U	81 U	413	75.1 U	63.6 U	68 U	63.3 U	N/A	N/A	427 U
GCAL SOP HPLC-0.. SM 2320B	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	10000 U	10000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10000 U	10000 U
	Chloride	Null	ug/L	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
	Cyanide	Null	ug/L	2.9 U	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U
	Nitrate as N	Null	ug/L	49 U	49 U	49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49 U
	Nitrite as N	Null	ug/L	1.8 U	1.8 U	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.8 U
	Phosphorus	Null	ug/L	21 U	21 U	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	67 U
	Sulfide	Null	ug/L	760 U	760 U	760 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	760 U
	Thiocyanate	Null	ug/L	25 U	25 U	25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25 U

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW21			SW21T			SW22			SW23		SW24
				July 2, 2014 Field Duplicate	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	Field Duplicate	August 13, 2014 Field Sample	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample	July 2, 2014 Field Sample	August 13, 2014 Field Sample	July 9, 2014 Field Sample
EPA 8270	4-Bromophenyl phenyl ether	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	57.5 U	
	4-Chloro-3-methylphenol	Null	ug/kg	417 U	456 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	61.7 U	
	4-Chloroaniline	Null	ug/kg	417 U	456 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	86.2 U	
	4-Chlorophenyl phenyl ether	Null	ug/kg	1040 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	53 U	
	4-Nitrophenol	Null	ug/kg	1040 U	1110 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	103 U	
	4-Nitro-2-methylphenol	Null	ug/kg	1040 U	1110 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	161 U	
	Acenaphthene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	110 U	
	Acenaphthylene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	45.3 U	
	Anthracene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	44.8 U	
	Benzol(b)fluoranthene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	60.9 U	
	Benzol(g,h,i)perylene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	76.8 U	
	Benzol(k)fluoranthene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	112 U	
	Benzol(a)anthracene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	139 U	
	Benzol(a)pyrene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	45 U	
	Benzol(b)anthracene	Null	ug/kg	417 U	456 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	131 U	
	Bis(2-chlorodifluoro)methane	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	57.5 U	
	Bis(2-chloroethyl)ether	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	63.7 U	
	Bis(2-ethylhexyl) phthalate	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	133 U	
	Butyl benzyl phthalate	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	44.6 U	
	Chrysene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	83.8 U	
	Di-n-butyl phthalate	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	64.5 U	
	Di-n-octyl phthalate	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	71.7 U	
	Dibenzo(a,h)anthracene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	131 U	
	Dibenzofuran	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	52 U	
	Diethyl phthalate	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	42.9 U	
	Dimethyl phthalate	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	45.3 U	
	Fluorene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	53.9 U	
	Hexachloro-1,3-butadiene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	68.9 U	
	Hexachlorobenzene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	50.2 U	
	Hexachlorocyclopentadiene	Null	ug/kg	417 U	456 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	125 U	
	Hexachloroethane	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	59.8 U	
	Indeno[1,2,3-cd]pyrene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	95 U	
	Isophorone	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	42.5 U	
	N-Nitrosodi-n-propylamine	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	46 U	
	N-Nitrosodiphenylamine	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	39.4 U	
	Naphthalene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	51.9 U	
	Nitrobenzene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	51.9 U	
	Pentachlorophenol	Null	ug/kg	1040 U	2210 U	N/A	N/A	N/A	N/A	N/A	N/A	2250 U	N/A	97.3 U	
	Phenanthrene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	71.9 U	
	Phenol	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	94.5 U	
	Pyrene	Null	ug/kg	417 U	228 U	N/A	N/A	N/A	N/A	N/A	N/A	898 U	N/A	59.2 U	
	TPCP	Null	ug/kg	N/A	*	78.2 U	67.7 U	67.7 U	78.3 U	75.6 U	67.4 U	62.2 U	N/A	76.5 U	
GCAL SOP HPLC-0.. SM 2320B	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	10000 U	N/A	N/A	N/A	N/A	N/A	N/A	10000 U	N/A	10000 U	
	Chloride	Null	ug/L	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	3900 J	
	Cyanide	Null	ug/L	2.9 U	2.9 U	N/A	N/A	N/A	N/A	N/A	N/A	2.9 U	N/A	2.9 UJ	
	Nitrate as N	Null	ug/L	49 U	49 U	N/A	N/A	N/A	N/A	N/A	N/A	49 U	N/A	49 U	
	Nitrite as N	Null	ug/L	21	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	1.8 U	N/A	19	
	Phosphorus	Null	ug/L	21 U	21 U	N/A	N/A	N/A	N/A	N/A	N/A	21 U	N/A	37	
	Sulfide	Null	ug/L	760 U	760 U	N/A	N/A	N/A	N/A	N/A	N/A	760 U	N/A	760 U	
	Thiocyanate	Null	ug/L	25 U	25 U	N/A	N/A	N/A	N/A	N/A	N/A	25 U	N/A	25 U	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ Exceedance

■ No Detection

Sediment Sampling Results (Method Target Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW24				SW25T				
				July 10, 2014 Field Sample	July 28, 2014 Field Sample	July 20, 2014 Field Sample	July 29, 2014 Field Sample	August 13, 2014 Field Sample	Field Duplicate	August 25, 2014 Field Sample	September 3, 2014 Field Sample	October 16, 2014 Field Sample
EPA 8270	4-Bromophenyl phenyl ether	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloro-3-methoxyphenol	Null	ug/kg	530 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chloroaniline	Null	ug/kg	530 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Chlorophenyl phenyl ether	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4-Nitrophenol	Null	ug/kg	1280 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4,6-Dinitro-2-methoxyphenol	Null	ug/kg	1280 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Acenaphthylene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Anthracene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(g,h,i)perylene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(a)anthracene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(a)pyrene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Benzol(b)fluoranthene	Null	ug/kg	530 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chlorodimethyl) methane	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-chloroethyl)ether	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bis(2-ethylhexyl) phthalate	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Butyl benzyl phthalate	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chrysene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-butyl phthalate	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Di-n-octyl phthalate	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenzofuran	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluoranthene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fluorene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloro-1,3-butadiene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorocyclopentadiene	Null	ug/kg	530 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachloroethane	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Indeno[1,2,3-cd]pyrene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Isophorone	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodi-n-propylamine	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N-Nitrosodimethylamine	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrobenzene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pentachlorophenol	Null	ug/kg	2570 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phenol	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pyrene	Null	ug/kg	265 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TPC	Null	ug/kg	*	77.6 U	83.4 U	68.6 U	76.8 U	74.7 U	68 U	70.9 U	63 U
GCAL SOP HPLC-0.. SM 2320B	Alkalinity, Carbonate (CaCO ₃)	Null	ug/L	10000 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Chloride	Null	ug/L	4600	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
	Cyanide	Null	ug/L	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrate as N	Null	ug/L	49 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Nitrite as N	Null	ug/L	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phosphorus	Null	ug/L	21 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Sulfide	Null	ug/L	760 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Thiocyanate	Null	ug/L	25 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

- color
- Detection
- Exceedance
- No Detection

Sediment Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	PD11	SW04	SW06	SW07	SW08	SW10	SW16	SW17
				July 12, 2014 Field Sample	July 10, 2014 Field Sample						
EPA 8260	column bleed	Null	ug/kg	N/A							
	Cyclohexane, 1-methyl-4-(1-methylethylene)-, cis-	Null	ug/kg	N/A	2200 NJ						
	Cyclohexane, 1-methyl-4-(1-methylethylene)-	Null	ug/kg	N/A	2200 NJ						
	Cyclohexene, 1-methyl-4-(1-methylethylene)-, (S)-	Null	ug/kg	N/A	76.8 NJ						
	Cyclohexene, 1-methyl-4-(1-methylethylene)-	Null	ug/kg	N/A	76.8 NJ						
	Cyclohexene, 4-methyl-1-(1-methylethyl)-	Null	ug/kg	N/A	112 NJ						
	Dodecane	Null	ug/kg	N/A	75.7 NJ						
	Limonene	Null	ug/kg	N/A							
	Naphthalene, 1,4,6-trimethyl-	Null	ug/kg	N/A							
	Naphthalene, 1,6-dimethyl-	Null	ug/kg	N/A							
	Naphthalene, 1,6,7-trimethyl-	Null	ug/kg	N/A							
	Naphthalene, 2,3,6-trimethyl-	Null	ug/kg	N/A							
	Tridecane	Null	ug/kg	N/A							
	Undecane, 2,6-dimethyl-	Null	ug/kg	N/A							
	1-Hexacosanal	Null	ug/kg	N/A	N/A	N/A	N/A	395 NJ	N/A	N/A	N/A
	2-Pentanone, 4-hydroxy-4-methyl-	Null	ug/kg	N/A	4790 NJ	8210 NJ	N/A	7730 NJ	5290 NJ	5360 NJ	*
	3-Methyl-4-(methoxycarbonyl)	Null	ug/kg	8360 NJ	N/A						
	4,6-Bis(ethylamino)-1,3	Null	ug/kg	N/A	N/A	N/A	N/A	30.3 NJ	N/A	N/A	N/A
	5,5-Dibutylbenzene	Null	ug/kg	N/A							
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	Null	ug/kg	N/A	2400 NJ	941 NJ	N/A	N/A	N/A	N/A	4240 NJ
	Benzene, 1-methyl-2-(1-methylethyl)-	Null	ug/kg	N/A							
	Benzene, 1-methyl-3-(1-methylethyl)-	Null	ug/kg	N/A	*						
	Benzene, 1-methyl-4-(1-methylethyl)-	Null	ug/kg	N/A							
	Benzene, 1,2,4,5-tetramethyl-	Null	ug/kg	N/A	1940 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Benzole[pyrene]	Null	ug/kg	N/A	N/A	N/A	N/A	110 NJ	N/A	N/A	N/A
	Butane, 2-methoxy-2-methyl-	Null	ug/kg	N/A	N/A	N/A	N/A	612 NJ	1510 NJ	N/A	N/A
	Camphepane	Null	ug/kg	N/A							
	Cyclohexane, 1-methyl-2-	Null	ug/kg	N/A	1700 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Cyclohexene, 1-methyl-4-(1-methylethylene)-, (S)-	Null	ug/kg	N/A	1610 NJ						
	Cyclohexene, 1-methyl-4-(1-methylethylene)-	Null	ug/kg	N/A	1610 NJ						
	D-Limonene	Null	ug/kg	N/A	N/A	15000 NJ	N/A	N/A	N/A	N/A	*
EPA 8270	Decane	Null	ug/kg	6760 NJ	N/A						
	Decane, 3,8-dimethyl-	Null	ug/kg	N/A							
	Decanoic acid	Null	ug/kg	N/A							
	Dodecane	Null	ug/kg	6060 NJ	N/A						
	Dodecane, 2-methyl-8-propyl-	Null	ug/kg	6010 NJ	N/A						
	Dodecane, 4,6-dimethyl-	Null	ug/kg	526 NJ	N/A						
	Dodecanoic acid	Null	ug/kg	N/A	N/A	10200 NJ	N/A	N/A	N/A	N/A	*
	Eicosane	Null	ug/kg	169 NJ	N/A						
	Heneicosane	Null	ug/kg	N/A							
	Heneicosane, 11-(1-ethyl-	Null	ug/kg	N/A							
	Heptadecane	Null	ug/kg	12500 NJ	N/A						
	Heptadecane, 2,6,10,15-	Null	ug/kg	N/A							
	Heptadecane, 8-methyl-	Null	ug/kg	N/A							
	Heptane, 3-ethyl-2-methyl	Null	ug/kg	1300 NJ	N/A						
	Hexadecane	Null	ug/kg	15100 NJ	N/A						
	Limnone	Null	ug/kg	6960 NJ	N/A	N/A	N/A	N/A	N/A	N/A	22700 NJ
	Lup-20(29)-en-3-one	Null	ug/kg	N/A	N/A	N/A	N/A	1220 NJ	N/A	N/A	N/A
	N-(2-hydroxyethyl)dodecanamide	Null	ug/kg	N/A	*						
	n-Hexadecanoic acid	Null	ug/kg	N/A	785 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene, 1-(phenyl-	Null	ug/kg	N/A	N/A	N/A	N/A	373 NJ	N/A	N/A	N/A
	Naphthalene, 1,2,3,4-tetrahydro-	Null	ug/kg	N/A	1460 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene, 1,2,3,4-tetrahydro-1,4-dimethyl-	Null	ug/kg	N/A	1460 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl-	Null	ug/kg	N/A	1460 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	Null	ug/kg	N/A	1460 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene, 1,2,3,4-tetrahydro-5,6-dimethyl-	Null	ug/kg	N/A	1460 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	Null	ug/kg	N/A	1460 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene, 2,3,6-trimethyl-	Null	ug/kg	N/A	287 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Naphthalene, 5-ethyl-1,2	Null	ug/kg	N/A	1400 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Nonadecane	Null	ug/kg	N/A	2730 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Nonadecane, 9-methyl-	Null	ug/kg	N/A							
	Octadecanal	Null	ug/kg	N/A	N/A	N/A	N/A	821 NJ	N/A	N/A	N/A
	Octadecane	Null	ug/kg	3680 NJ	N/A	N/A	N/A	631 NJ	N/A	N/A	*
	Octadecanoic acid	Null	ug/kg	N/A	875 NJ						
	Oleic Acid	Null	ug/kg	N/A	N/A	N/A	N/A	872 NJ	N/A	N/A	N/A
	Oxirane, hexadecyl-	Null	ug/kg	N/A	N/A	N/A	N/A	511 NJ	N/A	N/A	N/A
	Phenol, 4-(3-hydroxy-1-propenyl)-2-methoxy-	Null	ug/kg	N/A	3290 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Tetradecane	Null	ug/kg	N/A	N/A	2780 NJ	N/A	N/A	N/A	N/A	*
	Tetradecanoic acid	Null	ug/kg	N/A	N/A	N/A	N/A	564 NJ	N/A	N/A	N/A
	Tetrahydrofuran	Null	ug/kg	N/A							
	Tridecane	Null	ug/kg	1360 NJ	N/A						
	Tridecane, 2-methyl-	Null	ug/kg	N/A	1100 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Tridecane, 3-methyl-	Null	ug/kg	N/A	1210 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Tridecane, 6-methyl-	Null	ug/kg	N/A							
	Undecane	Null	ug/kg	N/A	6980 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Undecane, 2-methyl-	Null	ug/kg	N/A	2090 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Undecane, 2,6-dimethyl-	Null	ug/kg	N/A	1430 NJ	N/A	N/A	N/A	N/A	N/A	N/A
	Undecane, 4-ethyl-	Null	ug/kg	N/A							
	Vitamin E	Null	ug/kg	N/A	N/A	N/A	N/A	241 NJ	N/A	N/A	N/A

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J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ No Detection

Sediment Sampling Results (Method Tentatively Identified Compounds)

Eisenbarth Well Pad

Method	Analyte	Screening Value	Units	SW18		SW20		SW21		SW21T		SW24		SW25T	
				July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 9, 2014 Field Sample	July 10, 2014 Field Sample	July 20, 2014 Field Sample	
EPA 8260	column bleed	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.3 NJ	
	Cyclohexane, 1-methyl-4-(1-methylethylene)-, cis-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexane, 1-methyl-4-(1-methylethylene)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexene, 1-methyl-4-(1-methylethylene)-, (S)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexene, 1-methyl-4-(1-methylethylene)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexene, 4-methyl-1-(1-methylethyl)-	Null	ug/kg	N/A	8.6 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Dodecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	15.5 NJ	N/A	N/A	N/A	N/A	
	Limonene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	12.5 NJ	N/A	N/A	N/A	N/A	
	Naphthalene, 1,4,6-trimethyl-	Null	ug/kg	N/A	19.2 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 1,6-dimethyl-	Null	ug/kg	N/A	9.5 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 1,6,7-trimethyl-	Null	ug/kg	N/A	6.1 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 2,3,6-trimethyl-	Null	ug/kg	N/A	8.5 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tridecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	24.8 NJ	N/A	N/A	N/A	N/A	
	Undecane, 2,6-dimethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	17.6 NJ	N/A	N/A	N/A	N/A	
	1-Hexacosanol	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-Pentanone, 4-hydroxy-4-methyl-	Null	ug/kg	5780 NJ	N/A	5190 NJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3-Methyl-4-(methoxycarbonyl)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4,6-Bis(ethylamino)-1,3-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5,5-Dibutylbenzene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	445 NJ	N/A	N/A	
	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	270 NJ	N/A	N/A	N/A	N/A	
	Benzene, 1-methyl-2-(1-methylethyl)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	4720 NJ	N/A	N/A	N/A	N/A	
	Benzene, 1-methyl-3-(1-methylethyl)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	2100 NJ	N/A	N/A	N/A	N/A	
	Benzene, 1-methyl-4-(1-methylethyl)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	2100 NJ	N/A	N/A	N/A	N/A	
	Benzene, 1,2,4,5-tetramethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Benzole[el]pyrene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Butane, 2-methoxy-2-methyl-	Null	ug/kg	466 NJ	N/A	530 NJ	N/A	N/A	N/A	209 NJ	N/A	N/A	N/A	N/A	
	Camphepane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexane, 1-methyl-2-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexene, 1-methyl-4-(1-methylethylene)-, (S)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Cyclohexene, 1-methyl-4-(1-methylethylene)-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	D-Limonene	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	27900 NJ	N/A	25500 NJ	5340 NJ	N/A	N/A	
	Decane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	20100 NJ	1220 NJ	N/A	N/A	N/A	
	Decane, 3,8-dimethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1190 NJ	N/A	N/A	N/A	
	Decanoic acid	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	721 NJ	N/A	N/A	N/A	
	Dodecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	594 NJ	N/A	N/A	N/A	
	Dodecane, 2-methyl-8-propyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3150 NJ	N/A	N/A	N/A	
	Dodecane, 4,6-dimethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2040 NJ	N/A	N/A	N/A	
	Dodecanoic acid	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	1790 NJ	N/A	20100 NJ	1220 NJ	N/A	N/A	
	Eicosane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1190 NJ	N/A	N/A	
	Heneicosane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	721 NJ	N/A	N/A	
	Heneicosane, 11-(1-ethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	594 NJ	N/A	N/A	
	Heptadecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Heptadecane, 2,6,10,15-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	311 NJ	N/A	N/A	
	Heptadecane, 8-methyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	979 NJ	N/A	N/A	
	Heptane, 3-ethyl-2-methyl	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexadecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1630 NJ	N/A	N/A	
	Limnone	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lup-20(29)-en-3-one	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	7350 NJ	N/A	N/A	N/A	N/A	
	N-(2-hydroxyethyl)dodecanamide	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1610 NJ	787 NJ	N/A	N/A	
	n-Hexadecanoic acid	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	572 NJ	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 1-(phenyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 1,2,3,4-tetrahydro-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 1,2,3,4-tetrahydro-1,4-dimethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 1,2,3,4-tetrahydro-5,6-dimethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 2,3,6-trimethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Naphthalene, 5-ethyl-1,2-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nonadecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Nonadecane, 9-methyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 NJ	N/A	N/A	
	Octadecanal	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Octadecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Octadecanoic acid	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Oleic Acid	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Oxirane, hexadecyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Phenol, 4-(3-hydroxy-1-propenyl)-2-methoxy-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tetradecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2980 NJ	N/A	N/A	
	Tetradecanoic acid	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	785 NJ	N/A	5870 NJ	N/A	N/A	N/A	
	Tetrahydrofuran	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Tridecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2880 NJ	N/A	N/A	
	Tridecane, 2-methyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	684 NJ	N/A	N/A	
	Tridecane, 3-methyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	757 NJ	N/A	
	Tridecane, 6-methyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Undecane	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Undecane, 2-methyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1180 NJ	N/A	
	Undecane, 2,6-dimethyl-	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	967 NJ	N/A	N/A	
	Vitamin E	Null	ug/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

U - Compound was not detected in the sample at or above the Method Detection Limit (MDL).

J - Concentration is an estimate above the MDL but below the Reporting Limit (RL).

N - Result is a Tentatively Identified Compound (TIC).

F1 - Matrix Spike (MS) or Matrix Spike Duplicate (MSD) recover exceed control limits.

N/A - Sample not analyzed for compound or, if the compound is a TIC, the compound was not detected.

color

■ Detection

■ No Detection

Cumulative Data Trends

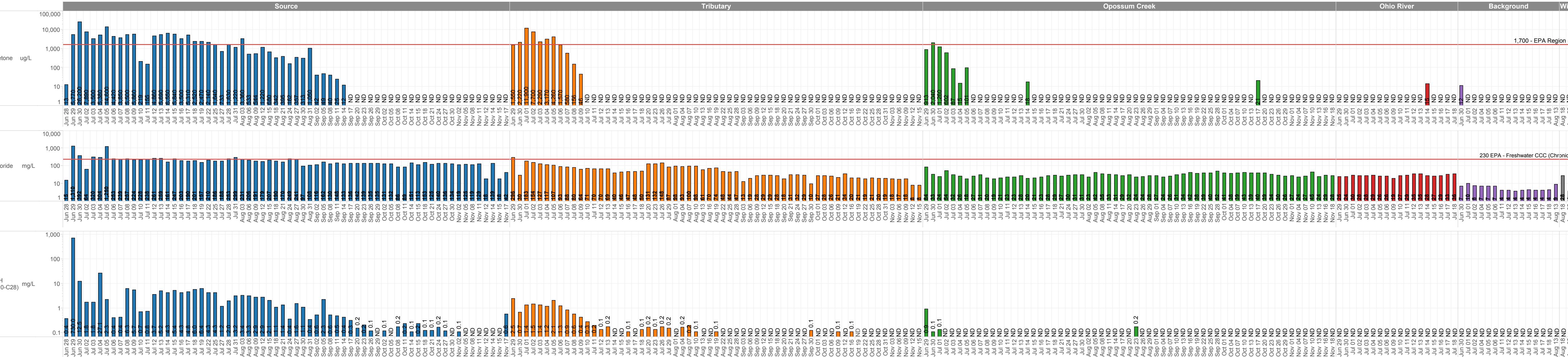
WWW.CTEH.COM



CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH,LLC

Maximum Detected Surface Water Sample Concentrations

CTEH

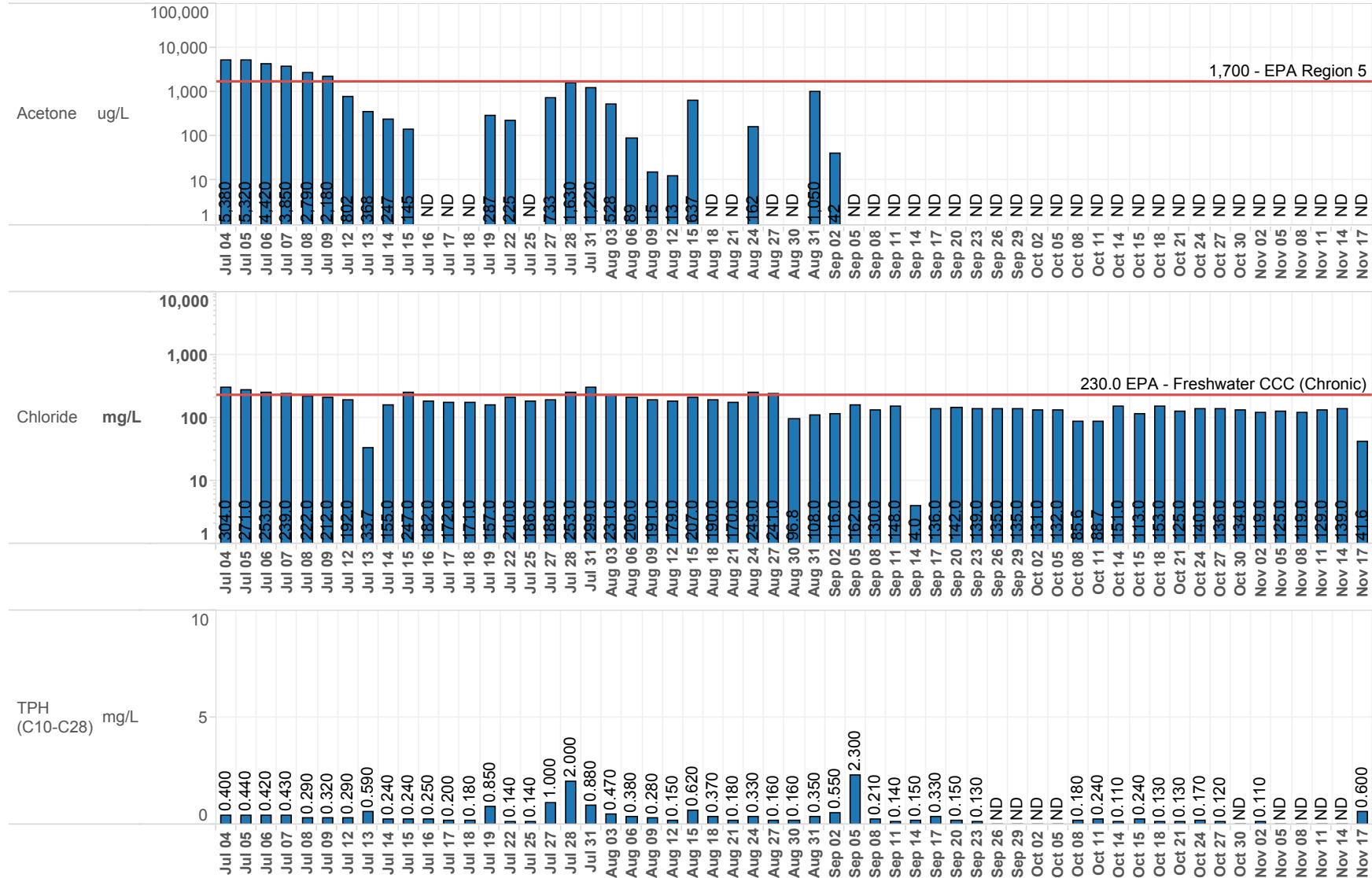


Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

After implementation of the sampling adjustment plan on July 19th, 2014, locations SW21 and SW25 were reclassified as "Tributary."

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by Pace Laboratories

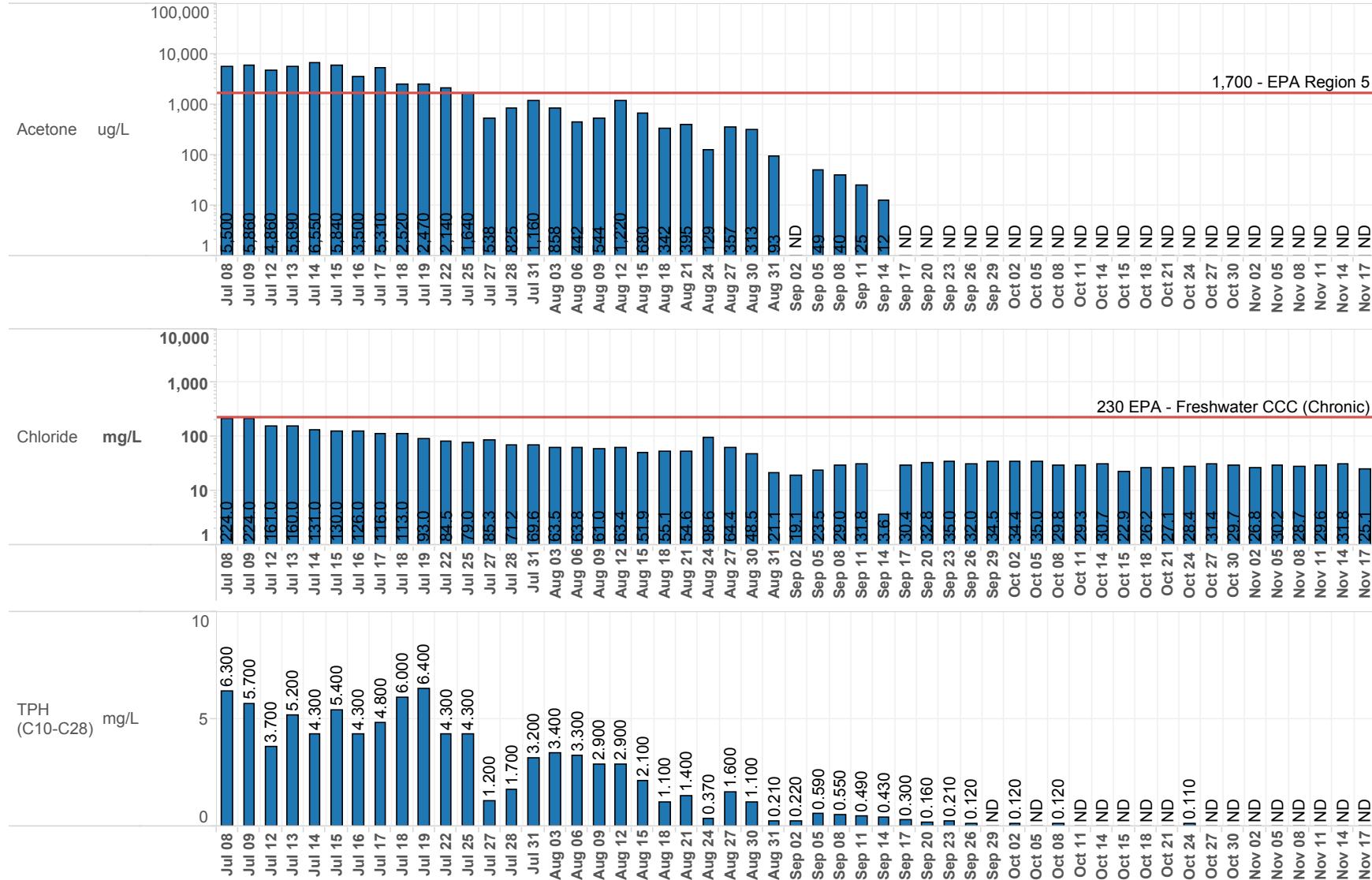
Maximum Detected Surface Water Sample Concentrations - PD07 (Outfall 1)



Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by Pace Laboratories

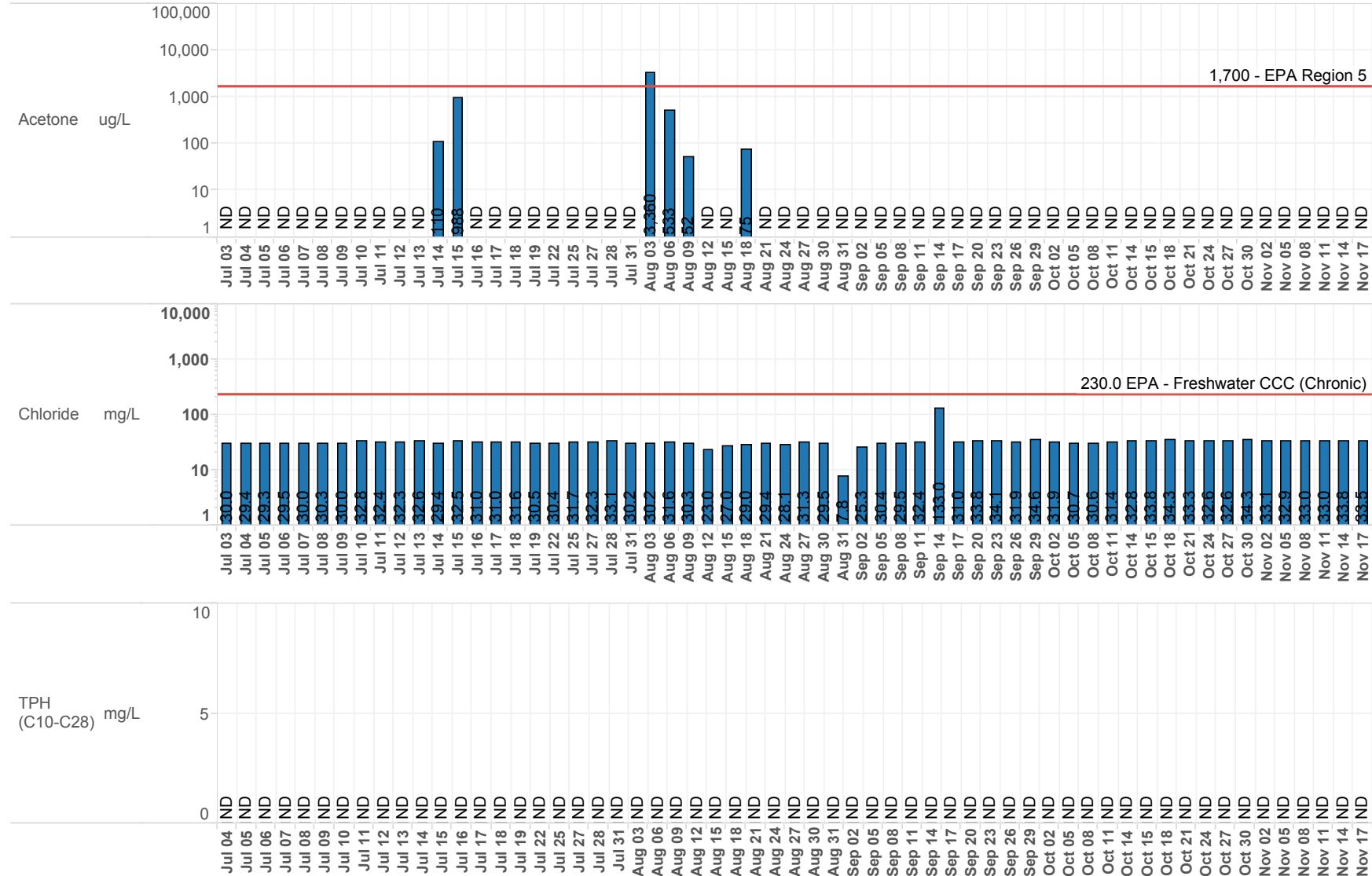
Maximum Detected Surface Water Sample Concentrations - SW24 (Outfall 2)



Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by Pace Laboratories

Maximum Detected Surface Water Sample Concentrations - PD03 (Outfall 5)

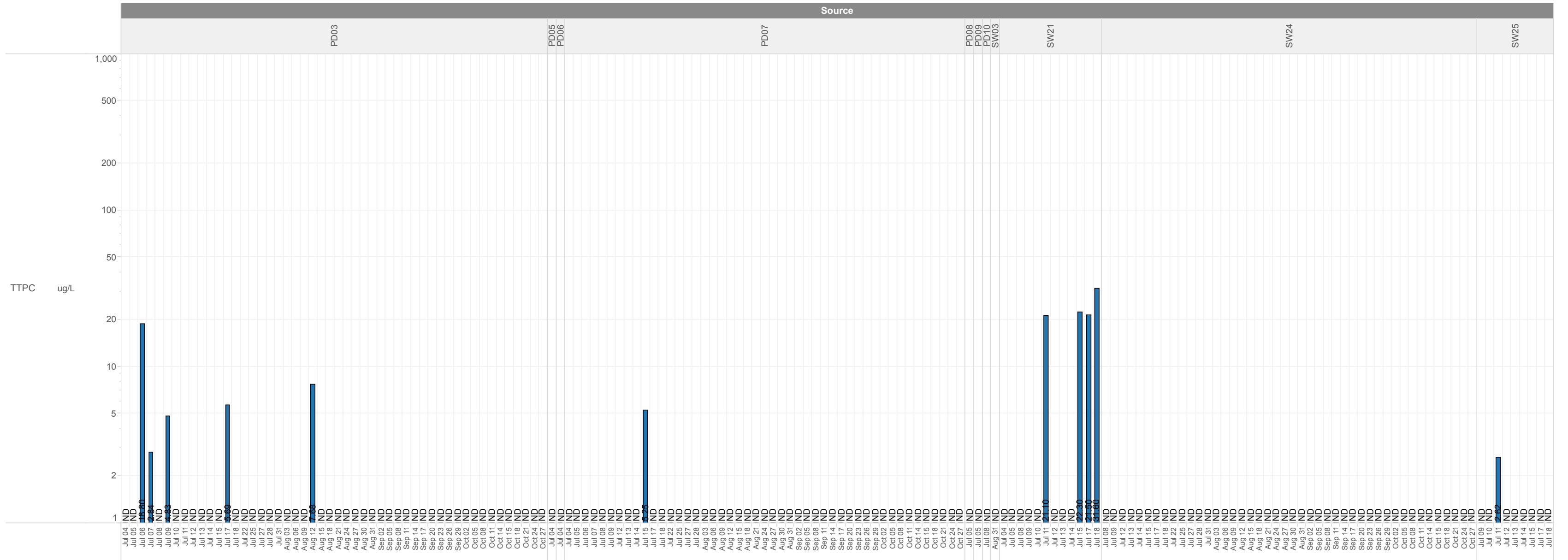


Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by Pace Laboratories

Ohio Operations Incident

Source Maximum TTPC Surface Water Detections by Location and Date Sampled

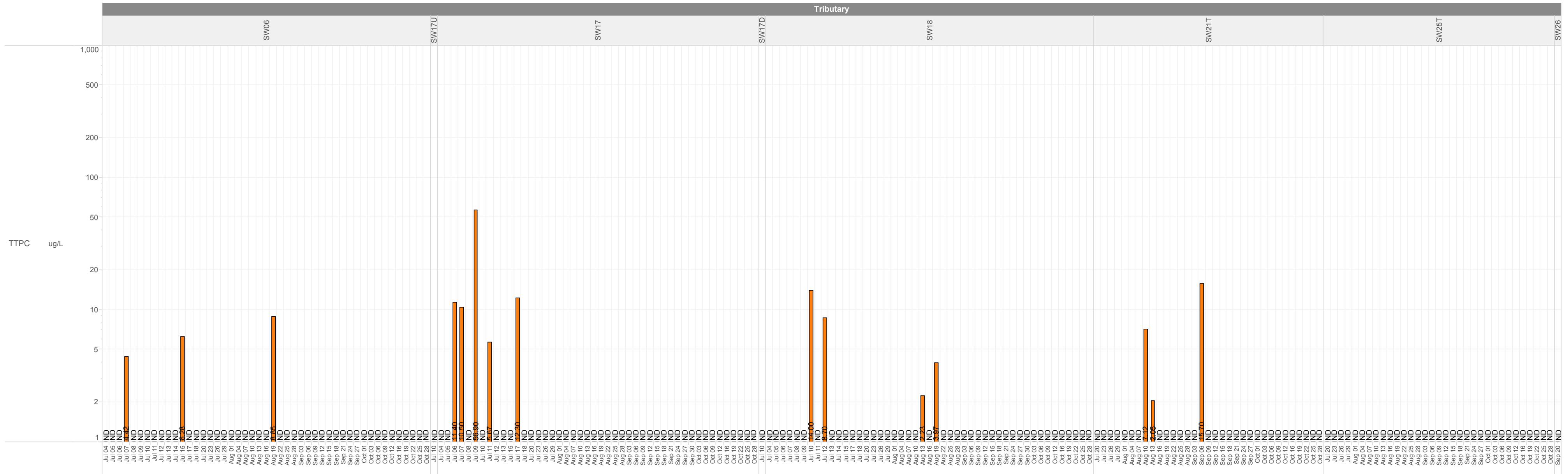


Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by GCAL Laboratories.

Ohio Operations Incident

Tributary Maximum TTPC Surface Water Detections by Location and Date Sampled

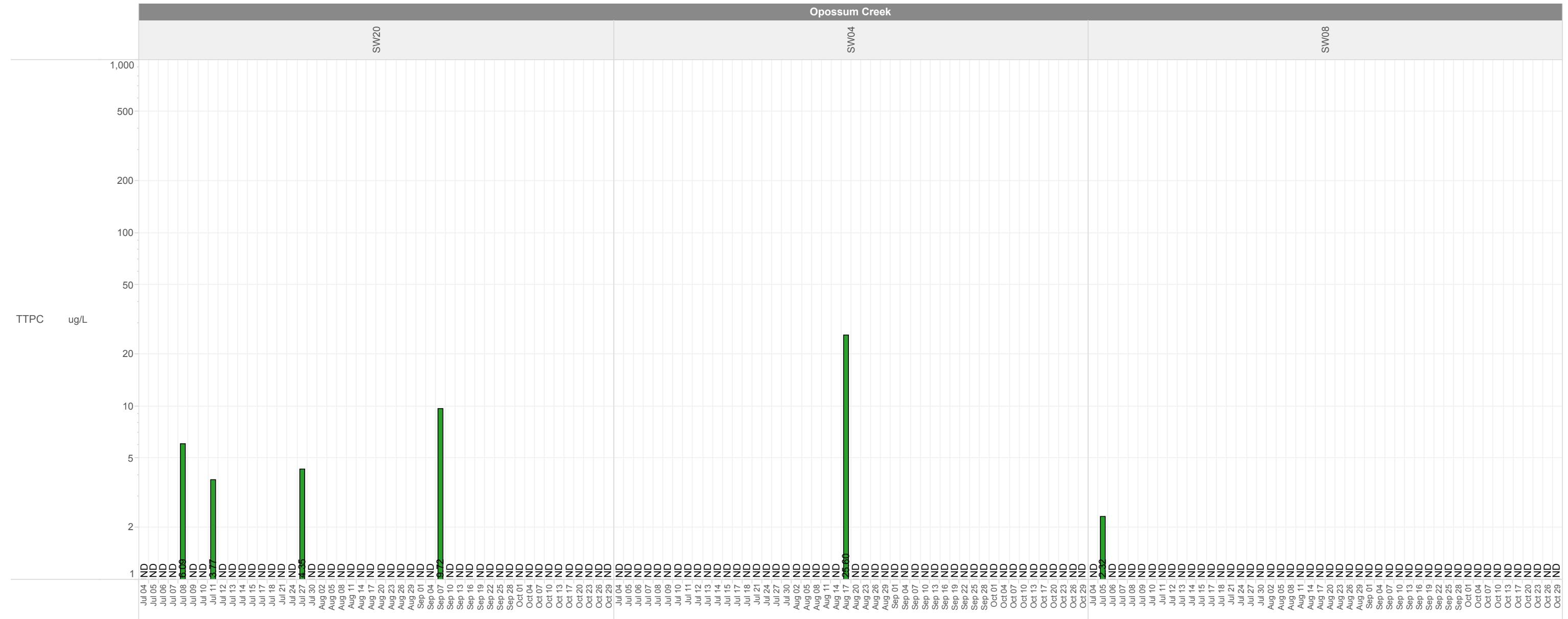


Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by GCAL Laboratories.

Ohio Operations Incident

Opossum Creek Maximum TTPC Surface Water Detections by Location and Date Sampled

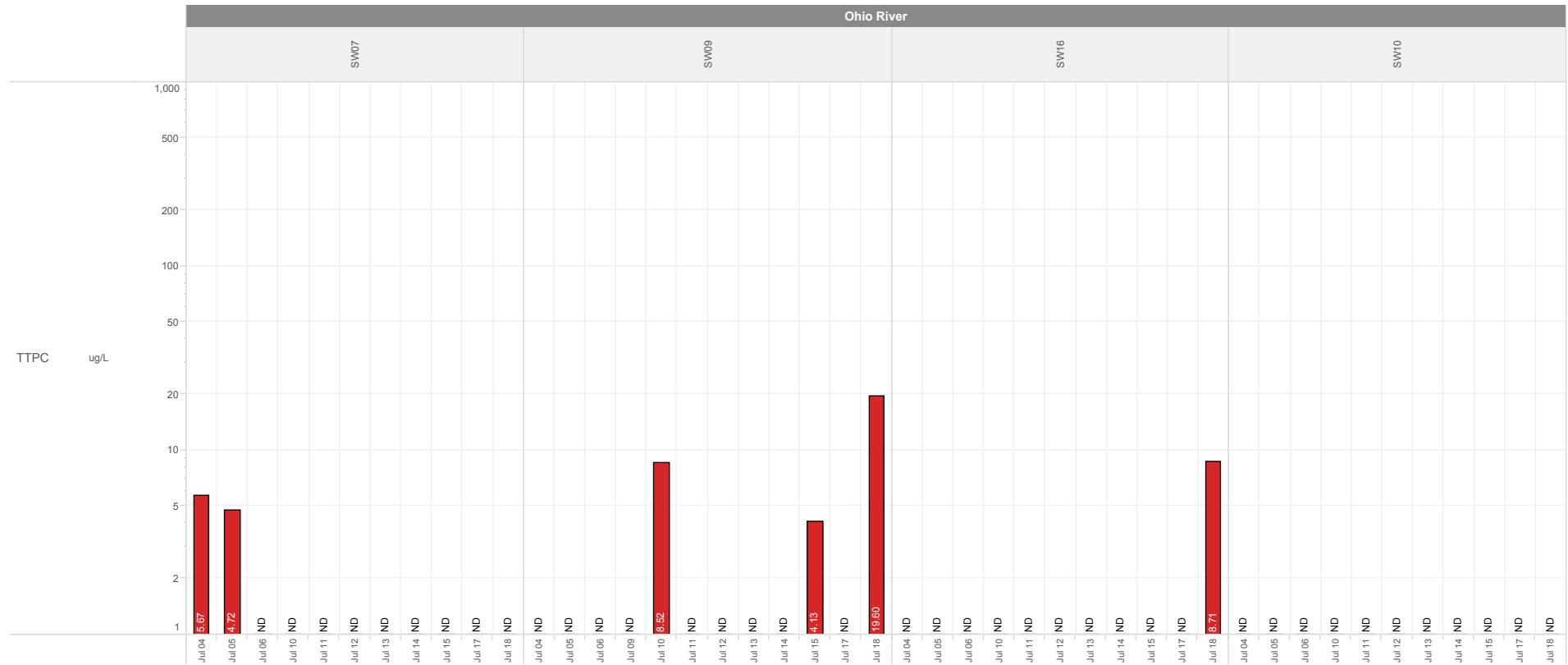


Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by GCAL Laboratories.

Ohio Operations Incident

Ohio River Maximum TTPC Surface Water Detections by Location and Date Sampled



Results displayed have not undergone complete QA/QC analysis and are presented in a preliminary format.

Note: ND = not detected in sample(s) analyzed; analyte concentration below method detection limit (MDL) established by GCAL Laboratories.

APPENDIX D

Referenced Documents

	SOP Number: HPLC-009 Revision: 00
Extraction and LC/MS/MS analysis of Tributyl tetradecyl phosphonium chloride (TTPC)	Effective Date: 11/24/14
	Supersedes Date: NA

STANDARD OPERATING PROCEDURE FOR EXTRACTION AND HPLC/MS/MS ANALYSIS OF TRIBUTYL TETRADECYL PHOSPHONIUM CHLORIDE (TTPC)

Approved by: _____ Date: 11/24/14
 Thomas Steiner, Extractions Supervisor

Approved by: _____ Date: 11/24/14
 Cash Kennedy, LC/MS/MS Analyst

Approved by: _____ Date: 11/24/14
 Scott Bailey, Laboratory Manager

Approved by: _____ Date: 11/24/14
 Allison Naquin, Technical Services Director

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	SOP Number: HPLC-009 Revision: 00
Extraction and LC/MS/MS analysis of Tributyl tetradecyl phosphonium chloride (TTPC)	Effective Date: 11/24/14
	Supersedes Date: NA

1.0 SCOPE AND APPLICATION

- 1.1 This procedure is designed for the analysis of Tributyl tetradecyl phosphonium chloride (TTPC) in a water matrix by dilution with acetone, filtration and analyzed by liquid chromatography/tandem mass spectrometry analysis.

2.0 APPLICABLE MATRIX OR MATRICES

- 2.1 Water and Solid

3.0 SUMMARY OF TEST METHOD

- 3.1 A measured volume or weight of sample is transferred to a 40mL vial. Solvent is added to each vial and the sample/solvent is shaken for 1 minute. The samples are then filtered through a Whatman filter and analyzed by LC/MS/MS.
- 3.2 The target compound is identified by comparing the single reaction monitoring (SRM) transition and its confirmatory SRM transition if correlated to the known standard SRM transition.

4.0 DEFINITIONS

- 4.1 Refer to SOP GEN-016

5.0 PERSONNEL QUALIFICATIONS AND RESPONSIBILITIES

- 5.1 The analyst performing this test procedure must have completed the required safety and technical orientation, ethics training, on-the-job training, and an initial demonstration of capability (IDOC).
- 5.2 The analyst must have completed a demonstration of capabilities (DOC) as described in SOP GEN-007. The demonstration of capabilities must be completed annually.

6.0 INTERFERENCES

- 6.1 Solvents, reagents, glassware and other sample extraction apparatus may yield interferences to sample analysis. All these must be demonstrated to be free from interferences under the conditions of analysis by analyzing method blanks.
- 6.2 TTPC sticks to surfaces, if the glassware is not properly cleaned and rinsed with solvent, such as acetone, 2-propanol and acetonitrile, low ppt concentrations affecting the analysis may be found.
- 6.3 Automatic Pipettes with polypropylene tips are used with this method. The use of glass syringes for standards preparation, spiking, and calibration generate erratic results and should rinsed extremely well.

7.0 SAFETY

- 7.1 Each employee is directly responsible for complete awareness of all health hazards associated with every chemical that he/she uses. The employee must be aware of these hazards and all associated protective wear and spill clean-up

	SOP Number: HPLC-009 Revision: 00
Extraction and LC/MS/MS analysis of Tributyl tetradecyl phosphonium chloride (TPPC)	Effective Date: 11/24/14
	Supersedes Date: NA

procedures PRIOR TO the use of any chemical. Employees must be familiar with the applicable safety data sheets (SDS). Chemical labels on the containers or packages contain important information on the safe handling, fire hazard and health hazards associated with the chemical.

- 7.2 Personnel performing this procedure may be working with flammables, poisons, toxins, carcinogens, teratogens, mutagens, and biohazards. Exposure to these materials must be reduced to the lowest level possible. Therefore, work should be performed in well ventilated areas in a fume hood.
- 7.3 The appropriate personal protective equipment (PPE) must be worn when working in the laboratory. For this procedure the required PPE is a lab coat, eye covering (safety glasses or goggles) and gloves; the PPE shall be worn when handling samples and/or chemicals.
- 7.4 Contact lenses are not to be worn in the laboratory.
- 7.5 Food or drink may not be present when actively processing or handling samples.

8.0 EQUIPMENT AND SUPPLIES

- 8.1 Extraction of Aqueous/Soil Samples
 - 8.1.1 VOA vials – 20mL and 40mL
 - 8.1.2 2mL autosampler vials with Teflon lined crimp caps
 - 8.1.3 Gas – Ultra pure Nitrogen
 - 8.1.4 Adjustable volume pipettes
 - 8.1.5 Pipette tips- various sizes of low retention coating
 - 8.1.6 Whatman syringe filter 0.2um (Catalog # 6750-2502)
 - 8.1.7 Plastic 10mL syringe with Luer Lock tip
 - 8.1.8 Analytical balance – capable of weighing to 0.1g and calibrated daily when in use
 - 8.1.9 Gas-tight syringes – 250uL, 500uL,1000 µL
 - 8.1.10 Volumetric flask, Class A- 10mL, 50mL,100mL
 - 8.1.11 15 mL pipet, Class A
- 8.2 HPLC/MS/MS Analysis
 - 8.2.1 HPLC – Agilent Series 1260
 - 8.2.1.1 See SOP GEN-012 for Preventive Maintenance and Troubleshooting.
 - 8.2.2 Column, Waters Acquity UPLC BEH C18, 2.1X100mm and 1.7um particle size, Waters part number 186002352
 - 8.2.3 Agilent 6460 triple quadrupole mass spectrometer capable of MRM analysis
 - 8.2.4 The Agilent system utilizes Agilent software MassHunter for instrument control and quantitation of all data.
 - 8.2.5 The data system must be capable of time stamping all data produced with the correct date and time.

	SOP Number: HPLC-009 Revision: 00
Extraction and LC/MS/MS analysis of Tributyl tetradecyl phosphonium chloride (TTPC)	Effective Date: 11/24/14
	Supersedes Date: NA

9.0 REAGENTS AND STANDARDS

- 9.1 Reagents – all organic reagent and solvent grades must be of Pesticide quality and meet method requirements. A copy of the accompanying certificate of analysis (CoA) must be kept on file. Reagents are to be stored according to manufacturer’s instruction and will expire on the date specified by the manufacturer. When the manufacturer fails to provide an expiration date, the expiration date will be 12 months from the date opened or sooner if the reagents show signs of deterioration such as change in color, clumping, separation, etc. If tests or appearance indicates the reagent has decomposed or is contaminated, dispose of the reagent and notify the QA Department and/or supervisor. Label all reagents with reagent ID, lot number, date received, date opened and expiration date. Label all prepared solutions as required by SOP GEN-006.
- 9.1.1 Deionized water
 - 9.1.2 Acetone
 - 9.1.3 Methylene chloride
 - 9.1.4 Acetonitrile, HPLC grade
 - 9.1.5 Water, HPLC grade
 - 9.1.6 Isopropyl alcohol
 - 9.1.7 Ammonium Acetate
 - 9.1.8 Sea Sand
- 9.2 Standards – all standards used must be pure material or from prepared certified solutions. A copy of the accompanying certificate of analysis (CoA) must be kept on file. Stock standards are to be stored according to manufacturer’s instruction and will expire on the date specified by the manufacturer. Label all working standards with date prepared, concentration, standard ID number, expiration date and the initials of individual preparing the standard. Record all standard preparations in the Standard Preparation Logbook. Label prepared standards as described in SOP GEN-006.
- 9.2.1 (Tri-n-butyl)-n-tetradecylphosphonium chloride,(TTPC) 97%
 - 9.2.2 Stock Standard (TTPC, 10,000 µg/mL) – weigh 0.1 g of TTPC standard into a 10 mL volumetric flask and bring to volume with 75% acetone/25% HPLC water. Store refrigerated at ≤ 6 °C in glass bottle with Teflon lined cap until use. Expires according to the manufacturer’s expiration date or 1 year after receipt whichever is sooner or if comparisons with quality control check samples indicate a problem.
 - 9.2.3 TTPC Standard (10 µg/mL) – add 100 µL of stock standard to a 100 mL volumetric flask and bring to volume with 75% acetone/25% HPLC water. Record in the Standards Preparation Logbook. Transfer into a glass bottle with Teflon lined cap, label with the standard name, standard ID, date prepared and expiration date. The solution will expire 6 months

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- from the date of preparation or manufacturer's expiration date whichever occurs first. Store refrigerated at ≤ 6 °C until use.
- 9.2.4 TTPC (100 $\mu\text{g/L}$) – add 1000 μL of TTPC 10 $\mu\text{g/mL}$ standard to a 100 mL volumetric flask and bring to volume with 75% acetone/25% HPLC water. Record in the Standards Preparation Logbook. Transfer into a glass bottle with Teflon lined cap, label with the standard name, standard ID, date prepared and expiration date. The solution will expire 6 months from the date of preparation or manufacturer's expiration date whichever occurs first. Store refrigerated at ≤ 6 °C until use.
- 9.2.5 TTPC Standard (1000 ng/L) – add 500 μL of TTPC 100ug/L standard to a 50 mL volumetric flask and bring to volume with 75% acetone/25% HPLC water. Record in the Standards Preparation Logbook. Transfer into a glass bottle with Teflon lined cap, label with the standard name, standard ID, date prepared and expiration date. The solution will expire 6 months from the date of preparation or manufacturer's expiration date whichever occurs first. Store refrigerated at ≤ 6 °C until use.
- 9.2.6 Calibration Standards – The calibration standards are prepared by diluting the TTPC 1000 ng/L standard into 6 working levels. Calibration levels: 25.0 ng/L, 50.0 ng/L, 100 ng/L, 250 ng/L, 500 ng/L, 1000 ng/L. The standards are diluted with 75% acetone/25% HPLC water.

10.0 SAMPLE COLLECTION, SHIPMENT, AND STORAGE

- 10.1 Samples are received at the laboratory by common carrier or hand delivered. Sample receipt policies are described in SOP SAD-001.
- 10.2 A chain-of-custody must accompany all samples and must document the date and the time of sample collection and the preservation method used. Internal chain of custody procedures are described in SOP SAD-002.
- 10.3 Samples are stored at the laboratory using conditions required by 40CFR 136 or reference method.
- 10.4 Samples are stored at the laboratory in a secure location until disposal.

11.0 PRESERVATION AND HOLD TIME

- 11.1 Required preservation – Cool to 0-6° C, but not frozen
- 11.2 Maximum holding time – As per the EPA document CRL SOP # OM16 Rev0 the holding time has not yet been established for this analyte in the various matrices.

12.0 QUALITY CONTROL

- 12.1 One method blank, LCS, LCSD, RLC, MS, and MSD shall be prepared per batch, a maximum of twenty samples.
- 12.2 If insufficient sample is available for a MS and/or MSD then document this on the Extraction Preparation Form.

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12.3 QC samples are prepared in the exact manner of the samples using the Procedure in Section 14.0.

13.0 CALIBRATION AND STANDARDIZATION

- 13.1 Analytical balances will be calibrated each day in use and the calibration recorded in the logbook associated with that analytical balance.
- 13.2 Auto-Pipettes will be calibrated each quarter and verified each day of use. Quarterly calibrations of auto-pipettes are recorded in the Non-Standard Labware Logbook and daily calibration verifications for auto- pipettes are recorded in the Daily Mechanical Pipet Calibration logbook associated with each pipette.
- 13.3 Retention Time Windows
 - 13.3.1 Retention time windows must be determined during initial instrument setup, when a new column is installed, when operating conditions are modified, or when major maintenance on the instrument occurs.
 - 13.3.2 For all analytes and surrogates a retention time study is performed over a minimum of 72 hours. The standard deviation (SD) is calculated based on this study using at least three determinations, measured to 0.001 minutes. The width of the retention time window is three times the SD for each of the analytes. Alternatively, if the calculated SD is less than 0.01 minutes, a default window of \pm 0.03 minutes shall be employed.
 - 13.3.3 The daily retention time window for the analyte is equal to the center of the retention window in the first CCV of the day, \pm 3 times the standard deviation calculated from the retention time study or \pm 0.03 minutes when the default is employed. If an ICAL is analyzed in the batch, use the mid-level calibration standard to set the daily retention time window for the analytical batch.
- 13.4 Tune
 - 13.4.1 The Agilent 6460 is tuned monthly or when mass shifts of more than 0.2 Dalton are noticed by the analyst. The tuning solution used is Agilent 6460 tuning solution. The tune procedure for the 6460 is automated and can be found in the MassHunter software.
- 13.5 Initial Calibration (ICAL) – an ICAL is performed using a blank and 5-6 standards analyzed at the concentrations noted in Section 9.2.6. An initial calibration curve must be analyzed and evaluated before any result can be quantitated. An initial calibration is performed daily.
- 13.6 Average Response Factor Calibration
 - 13.6.1 A minimum of five standards is required for this method. Calculate the average of the response factors and the standard deviation across the response factors. The lowest standard used must be at or below the reporting limit for each analyte. Use the average RF and the standard deviation to calculate the percent relative standard deviation (%RSD).

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When the response factors of the standards demonstrate less than 20% RSD for all target analytes, linearity through the origin can be assumed. If the RSD for any target analyte is greater than 20%, the analyst may wish to review the results for that analyte to ensure that the problem is not associated with just one of the initial calibration standards. Points may be dropped from the high and/or low end of the calibration curve if the minimum number of points and the project required detection limits are maintained. Points may not be removed from the middle of a calibration unless there is a documented reason. That point may be re-analyzed and replaced in the same analytical batch.

- 13.7 Linear Regression Calibration – If the RSD exceeds 20%, a linear regression equation that is not forced through the origin may be used. The correlation coefficient must be at least 0.990 for the curve to be acceptable. The analyst should check the y-intercept (b). If the intercept is greater than half the reporting limit, this option should not be used.
- 13.8 Quadratic Curve Fit – A quadratic curve fit may be used if the coefficient of determination $r^2 \geq 0.990$. A minimum of a six-point calibration is used if this option is chosen and the curve shall not be forced through zero. The analyst should check the y-intercept (b). If the intercept is greater than half the reporting limit, this option should not be used.
- 13.9 Independent Calibration Verification (ICV) – immediately following the ICAL analyze a standard containing all target analytes prepared from a solution that is independent from the ICAL standard. The ICV for TTPC is prepared from the same neat material as the calibration standard.
 - 13.9.1 The ICV is prepared at a concentration of 250 ng/L, and should not exceed a 30% difference from the initial calibration.
 - 13.9.2 If the criterion referenced above is not achieved, corrective action must be taken. This may include instrument maintenance, re-analysis of the ICV or initial calibration, or re-preparation of the standards involved.
- 13.10 Continuing Calibration Verification (CCV) The CCV is analyzed at the end of the sequence or every 24 hours.
 - 13.10.1 The CCV is prepared and analyzed at a 250ng/L concentration, and must not exceed a 30% difference from the initial calibration.
 - 13.10.2 If the calibration verification standard fails to meet the criteria, repeat the injection of the standard. If the standard fails again, take appropriate corrective action (inspection of HPLC, re-prep standard, etc.). If the criteria cannot be met, a new calibration curve should be prepared.
 - 13.10.3 If the calibration verification standard analyzed after a group of samples has a response for an analyte that is high and the analyte was not detected in any of the previous samples during the analytical shift, then the samples do not need to be re-analyzed.

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14.0 PROCEDURE

14.1 Extraction of Aqueous Samples

- 14.1.1 Label each 40 mL VOA vial with the last six (6) digits of the sample ID to be extracted. Fill in the Extraction Preparation Form information as each item is completed.
- 14.1.2 With each extraction batch, a method blank, LCS, LCSD, and RLC are performed. The MS/MSD is performed when assigned.
- 14.1.3 With an Eppendorf pipette transfer 2.5 mL HPLC water into a 40 mL VOA vial labeled Blank; repeat for the LCS/LCSD and RLC. Record the volume on the Extraction Preparation Form. The RLC is spiked with 50 uL of a 5 ug/L TTPC standard.
- 14.1.4 Spike the LCS/LCSD and the MS/MSD with 50 uL of the 100ug/mL TTPC standard.
- 14.1.5 With an adjustable pipette transfer 2.5 mL of sample into a labeled 40 mL VOA vial. Record the volume on the Extraction Preparation Form.
- 14.1.6 To all QC and samples add 7.5 mL of acetone with an adjustable pipette and shake or vortex for 1 minute.
- 14.1.7 Filter the sample through the Whatman syringe filter by dispensing the first mL to waste and collecting the second mL in an auto sampler vial.
- 14.1.8 Sign the Extraction Preparation Form. Deliver a copy of the Extraction Preparation Form and the extracts to the HPLC-MS laboratory. If an analyst is not available to receive the samples, place in the appropriate refrigerator with the Extraction Preparation Form.

14.2 Extraction of Soil Samples

- 14.2.1 Label each 40 mL VOA vial with the last six (6) digits of the sample ID to be extracted. Fill in the Extraction Preparation Form information as each item is completed.
- 14.2.2 With each extraction batch, a method blank, LCS, LCSD, and RLC are performed. The MS/MSD is performed when assigned.
- 14.2.3 Weigh 2.0g of sea sand into a 40 mL VOA vial labeled Blank; repeat for the LCS/LCSD and RLC. Record the volume on the Extraction Preparation Form. The RLC is spiked with 100 uL of a 5 ug/L TTPC standard.
- 14.2.4 Spike the LCS/LCSD and the MS/MSD with 50 uL of the 100ug/mL TTPC standard.
- 14.2.5 Weigh 2.0g of sample into a labeled 40 mL VOA vial. Record the volume on the Extraction Preparation Form.
- 14.2.6 To all QC and samples add 15 mL of acetone using a 15 mL pipet and shake or vortex for 1 minute.
- 14.2.7 Filter the sample through the Whatman syringe filter and collect in a 40 mL VOA vial.

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- 14.2.8 To all QC and samples add 5.0 mL of HPLC water using an adjustable pipette.
- 14.2.9 Transfer approximately 1 mL into an autosampler vial.
- 14.2.10 Sign the Extraction Preparation Form. Deliver a copy of the Extraction Preparation Form and the extracts to the HPLC-MS laboratory. If an analyst is not available to receive the samples, place in the appropriate refrigerator with the Extraction Preparation Form.

14.3 HPLC Conditions

- 14.3.1 Analytical column: Acquity UPLC BEH C18, 2.1x100mm, 1.7um particle size.
- 14.3.2 Injections of all standards and samples are normally made at a 40uL volume.
- 14.3.3 Standards and samples must be in 75:25 acetone :water.
- 14.3.4 Solvent A :20 mM ammonium acetate 95.25% acetonitrile, 4.75% HPLC water.
- 14.3.5 Solvent B: 20 mM ammonium acetate 95% HPLC water, 5% aceotnitile.
- 14.3.6 Ramp:

Time	Flow	SolventA	SolventB
0	0.3	0	100%
1	0.3	0	100%
4	0.4	100%	0
8	0.4	100%	0
9	0.4	0	100%
10	0.4	0	100%

14.4 Mass Spectrometer conditions

- 14.4.1 The instrument is set in the Electrospray(+) positive source setting.
- 14.4.1.1 Gas Temp : 350C
- 14.4.1.2 Gas Flow: 10L/min
- 14.4.1.3 Nebulizer: 35psi
- 14.4.1.4 Sheath Gas Temp: 380C
- 14.4.1.5 Sheath Gas Flow :12L/min

14.4.2 Mass Spec parameters:

<u>Compound</u>	<u>Primary/Confirmatory</u>	<u>SRM Transition</u>	<u>Cone (V)</u>	<u>Collision (eV)</u>
TTPC	Primary	399.5-229.3	140	45
	First Confirmatory	399.5- 75.9	140	46
	Second Confirmatory	399.5-343.5	140	40

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14.5 HPLC Analysis

- 14.5.1 Samples are analyzed in a set referred to as an analytical sequence. The sequence begins with an initial calibration. It contains a CCV at the end of the sequence or 24 hours.
- 14.5.2 If the TTPC ions are present and the peak falls within the retention time window, then calculate the concentration present.
- 14.5.3 If a sample response exceeds the limits of the initial calibration of the system, a dilution of the sample must be analyzed which falls within the calibration range of the instrument. This should be done by diluting the sample with 75:25 acetone:water.
- 14.5.4 Manual Integrations - See SOP QA-010 for GCAL's Manual Integration Policy.

15.0 CALCULATIONS

15.1 % Recovery (MS/MSD) = $\frac{\text{Spike Concentration} - \text{Sample Concentration}}{\text{Spike Added}} \times 100$

15.2 % Recovery (LCS/LCSD/Surrogate) = $\frac{\text{Spike Concentration}}{\text{Spike Added}} \times 100$

15.3 RPD = $\frac{|\text{Concentration 2} - \text{Concentration 1}|}{(\text{Concentration 2} + \text{Concentration 1})/2} \times 100$

15.4 Response Factor = A_s/C_s
 As= Peak Area of analyte
 Cs= Concentration of the analyte

15.5 % Difference = $\frac{[(RF_I - RF_C) / RF_I]}{RF_I} \times 100$
 RF_I= Average response factor from initial calibration
 RF_C= Response factor from current verification check standard

15.6 % RSD = $(SD/X) \times 100$
 RSD = Relative Standard Deviation
 X = mean of initial RF's for a compound
 SD = Standard Deviation of average RF's for a compound

15.7 Concentration, water samples (ng/L) = $\frac{[(Ax)(FV)(DF)]}{[(RFX)(IV)(Vi)]}$

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$$\text{Concentration, soil samples (ng/Kg)} = \frac{[(Ax) (FV) (DF)]}{[(RFX) (WS) (Vi)]}$$

Ax = Area of compound being measured

FV = Final volume of extract

DF = Dilution factor

RFX = Response factor of compound being measured

IV = Volume of water extracted

WS = Weight of soil extracted

Vi = Volume of extract injected

15.8 Refer to SOP GEN-021 for calibration calculations.

16.0 REPORTING LIMIT/LIMIT OF QUANTITATION (LOQ)

- 16.1 Water samples – 100 ng/L
- 16.2 Soil samples – 250 ng/Kg

17.0 METHOD PERFORMANCE

- 17.1 Method performance is not available

18.0 POLLUTION PREVENTION

- 18.1 Pollution prevention encompasses any technique that reduces or eliminates the quantity or toxicity of waste at the point of generation.
- 18.2 Refer to QAM Section 10.2

19.0 DATA ASSESSMENT AND ACCEPTANCE CRITERIA

- 19.1 The Method Blank concentration shall not be greater than half the Limit of Quantitation (LOQ) or 1/10 the amount measured in any sample (whichever is greater), or otherwise affect sample results. If the method blank fails to meet these criteria, the source of the contamination should be investigated and samples should be re-extracted and/or reanalyzed. If additional sample is not available, report with a case narrative and notify the GCAL project manager immediately.
- 19.2 The LCS control limits are used to determine batch acceptability. If the LCS fails to meet the laboratory acceptance criteria, the source of inaccuracy should be investigated and samples should be re-extracted and/or reanalyzed. Enter condition code “RP” for each sample affected, a new prep and analytical schedule will populate in the sample when saved. If additional sample is not available or the samples were re-prepared outside of holding time, report with a case narrative and notify the GCAL project manager immediately. If a target compound is not detected in a sample and the LCS shows high bias (recovery above the upper control limit), the sample can be reported with a narrative. The analyst is still

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required to investigate the source of the failure. The LCS recovery limits for waters are 56-99% and solids are 70-130%.

- 19.3 The RLC (Reporting Limit Check Sample) is processed like a LCS just spiked near the reporting limit. This sample is to verify that if the analyte is present at the reporting limit it would be confidently identified. The RLC is performed with each extraction batch. The RLC recovery limits for water and solids are 70-130%.
- 19.4 The MS is evaluated against the LCS control limits and is used to determine sample matrix effect. If the MS recovery is outside of control limits and the LCS is within control limits, matrix interference is indicated. Report the results with a case narrative. The MS recovery limits for waters are 56-99% and soils are 70-130%.
- 19.5 The LCS/LCSD and MS/MSD RPD is evaluated using the criteria $\leq 30\%$. If the RPD is outside the control limits, investigate the source of the precision error. A source of precision error in the MS/MSD may be the heterogeneous nature of the sample. If a lab error is suspected, repeat the analysis. If a matrix issue is indicated, report the results with a case narrative.
- 19.6 Review data to verify that a lab error has not occurred (wrong spike amount, not spiked) before identifying a failure as matrix interference.
- 19.7 Native sample concentrations may be high in comparison to the spiking concentration and therefore an accurate recovery cannot be calculated. Document this in the case narrative.
- 19.8 Spikes may be diluted out in the analysis process if a 10X or higher dilution is performed. Document this in the case narrative.
- 19.9 Project specific criteria may apply. See SOP GEN-019.
- 19.10 For data review procedures and checklists, see SOP QA-002.

20.0 CORRECTIVE ACTIONS FOR OUT-OF-CONTROL DATA

- 20.1 Refer to GEN-018 for instructions on corrective actions. Corrective actions must be completed when the items below are noted:
 - 20.1.1 Whenever a sample holding time is missed due to lab error (not applicable if samples were received with less than one day of holding time remaining or if for any reason analysis could not proceed while waiting for instructions from a client).
 - 20.1.2 If a sample has been reported incorrectly for any reason.

21.0 WASTE MANAGEMENT

- 21.1 All unused samples or sample extracts are discarded according to the Hazardous Waste Disposal SOP, GEN-009.

22.0 REFERENCES

- 22.1 EPA – CRL SOP #OM16 Rev 0

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SOP for the analysis of TTPC in water/soil by MRM LC/MS/MS

23.0 METHOD MODIFICATIONS

23.1 Not applicable.

24.0 TABLES, DIAGRAMS, AND FLOWCHARTS

24.1 Document review and revision history

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Note: Actions older than 5 years may be removed from this record.

Document Review and Revision History

Approval Date	Revision No.	Record of Activity	Author
07/17/14	00	New SOP	



www.pacelabs.com

Pace Analytical Services, Inc.
723 Kasota Ave. S
Minneapolis, MN 55414
Phone: 612.656.1139

STANDARD OPERATING PROCEDURE

Analysis of Tributyl tetradecyl phosphonium chloride (TTPC) by High Performance Liquid Chromatography (H.P.L.C.)

SOP NUMBER	PTD-199 Rev 2
EFFECTIVE DATE	Date of Final Signature
SUPERSEDES	PTD-199

APPROVAL

Product Testing General Manager

Date

Quality Manager

Date

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1. PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to set forth the procedure used for the determination of the biocide: Tributyl tetradecyl phosphonium chloride (TTPC) that is partitioned into an organic solvent and analyzed by HPLC-DAD.

2. SCOPE AND APPLICATION

This method is used to determine the concentration of TTPC in extracts prepared from surface water or solid matrices.

3 INTERFERENCES

- 3.1 Matrix interferences may be caused by contaminants in solvents, reagents, glassware, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the ion current profiles. All of these materials must be routinely demonstrated to be free from interferences under the conditions of the analysis by running laboratory reagent blanks.
- 3.2 Matrix interferences may be caused by contaminants that are co-extracted from the sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the environment being sampled.

4 RESPONSIBILITIES

4.1 QUALITY ASSURANCE OFFICE (QA Office)

- 4.1.1 The QA Office is responsible for conducting audits to monitor adherence to this and other SOP's. Results of the audit will be reported to Management.
- 4.1.2 The QA Office is responsible for ensuring that all revisions to the SOP are implemented.
- 4.1.3 The QA Office is responsible for retaining the original and for determining distribution and maintaining document control for this SOP.
- 4.1.4 The QA Office will provide logbooks upon request.

4.2 LABORATORY MANAGER

- 4.2.1 The laboratory manager is responsible for ensuring adherence to this SOP.
- 4.2.2 The laboratory manager is responsible for performing an annual review to this SOP and reporting any required revisions to the Quality Assurance Office.

4.3 PERSONNEL

- 4.3.1 All personnel involved with sample analysis are responsible for adherence to this SOP.
- 4.3.2 Personnel are responsible for ensuring that any deviations to this SOP are reported to the department manager or section supervisor.
- 4.3.3 All personnel are responsible for notifying the department manager or section supervisor of any required revisions to this SOP.

5 SAMPLE COLLECTION, PRESERVATION AND HANDLING

5.1 CONTAINERS

5.1.1 Water samples should be collected in unpreserved 1000 milliliter amber glass bottles with Teflon-lined lids.

5.1.2 Soil samples should be collected in 4 oz amber jars with Teflon-lined lids or equivalent

5.2 STORAGE

5.2.1 The samples should be refrigerated at 4°C (+/- 2°C) from the time of collection until extraction. The extracts should also be kept refrigerated until analysis.

5.3 HOLDING TIME

5.3.1 Water samples should be extracted within 7 days from date of collection. Soil samples should be extracted within 14 days from the date of collection.

5.3.2 The sample extracts should be analyzed within 40 days of sample extraction.

6 EQUIPMENT AND SUPPLIES

6.1 Solid Phase Extraction (SPE)

6.1.1 SPE manifold: Burdick / Jackson 24 place unit (or equivalent).

6.1.2 SPE cartridges: Phenomenex Strata WCX – 500mg /6 ml – pn: 8B-S027-HCH (or equivalent)

6.1.3 Vacuum pump: Diaphragm pump able to maintain 5 in Hg of vacuum.

6.2 Hewlett-Packard High Performance Liquid Chromatograph Model 1100 with 4 channel metering pump, degassing unit, auto sampler, column heater/chiller and diode array detector (DAD) – (or equivalent).

6.3 Column Hamilton – #79441 – PRP-X200 10um 150 x 4.1mm (or equivalent).

6.4 Data system

Aquisition: Hewlett Packard Chemstation Version B.02.04 (or equivalent)

Processing: Target, Version 4.1 (or equivalent)

6.5 Laboratory Shaker – Orbit or equivalent.

6.6 250 mL amber glass containers or equivalent

7 REAGENTS AND STANDARDS

7.1 Target analyte solutions, are obtained from various vendors and verified for accuracy. In general, these solutions are stored at ambient or per manufacturer's specifications, and have an expiration date of 12 months. Follow manufacturer's expiration time frames.

7.2 Acetonitrile, CH₃CN – Optisolve or equivalent

7.3 Organic-free reagent water, deionized.

7.4 Mobile Phase: 10% H₂O – 90% Acetonitrile stir until solution returns to room temperature. Add 0.5571g Benzyl trimethyl ammonium chloride and 0.6005g Acetic

Acid- Continue to stir for two hours and solution needs to be constantly stirred while this mobile phase is on the instrument.

8 CALIBRATION

8.1 INITIAL CALIBRATION

8.1.1 The initial calibration stock standard should be prepared as follows diluting to final volume with Acetonitrile: (actual amounts may be different)

Vendor	Solution Name	Catalog Number	Percent	Amount Added (grams)	Final Concentration ($\mu\text{g/mL}$)	Final Volume (mL)
Alfa Aesar	TTPC	B24775	97%	0.0485	970	50

8.1.2 The initial calibration working standards should be prepared as follows: (actual amounts may be different)

Name	Conc. of Parent ($\mu\text{g/mL}$)	Aliquot Volume (mL)	Diluent Vol. (mL)**	Final Conc. ($\mu\text{g/mL}$)
TTPC-7	970	0.500	0.500	485
TTPC-6	970	0.250	0.750	242.5
TTPC-5	970	0.100	0.900	97
TTPC-4	970	0.050	0.950	48.5
TTPC-3	970	0.025	0.975	24.25
TTPC-2	970	0.010	0.990	9.7
TTPC-1	970	0.005	0.995	4.85

**Diluent is Acetonitrile

8.1.3 Prior to the analysis of samples, the HPLC system must be initially calibrated at a minimum of three concentrations to determine the linearity of response utilizing target compound standards.

- a) The system should be set up to analyze the multiple calibration levels.
- b) Analyze 50 μL of each calibration standard and tabulate the area of the primary peak against concentration for each compound .

8.1.4 Calculate response factors (RFs) for each compound in each calibration level:

Equation 1

$$RF = \frac{(A_x)}{(C_x)}$$

Where:

A_x = Area of the characteristic peak for the compound being measured.

C_x = Concentration of the compound being measured (ng/ μ L).

8.1.5 The average RF should be calculated for each compound.

8.1.6 The percent relative standard deviation should be calculated for each compound.

Equation 2

$$\% RSD = \frac{SD}{\overline{RF}} \times 100$$

Where:

\overline{RF} = Mean of the Response Factors mentioned above.

SD = Standard Deviation of initial response (Equation 3).

Equation 3

$$SD = \sqrt{\frac{\sum_{i=1}^n (RF_i - \overline{RF})^2}{n-1}}$$

Where:

RF_1 = Each individual response factor

\overline{RF} = Mean of the Response Factors mentioned above.

n = Number of response factors

b) The %RSD should be less than or equal to 20% for each target analyte or > 0.990 if linear regression is used.

8.2 CONTINUING CALIBRATION VERIFICATION or INITIAL CALIBRATION VERIFICATION (Optional due to availability of standard)

8.2.1 The continuing calibration verification (CCV) may be prepared from a separate vendor source from the initial calibration. Periodically use any mid level concentration from the Ical for the CCV standard.

8.2.2 Compare the response factor data from the standards every day with the average response factor from the initial calibration and calculate the percent difference as follows:

Equation 4

$$\%Difference = \frac{(RF_i - RF_c)}{RF_i} \times 100$$

Where:

RF_i = Average response factor from initial calibration

RF_c = Response factor from current verification check standard

- a) The %D MUST be less than or equal to 30% for each target analyte for both the CCV and the external check.

8.2.3 The retention times in the CCV must be evaluated immediately after or during data acquisition.

- a) If the retention time for any standard analyte changes by more than 30 seconds from the midpoint calibration standard of the initial calibration, the analytical system must be inspected for malfunctions and corrections must be made. If the change can be identified as not relating to malfunction, no adjustments need to be made.

9 PROCEDURE

9.1 SAMPLE PREPARATION

9.1.1 Water Extraction EPA method 3535A, Solid Phase Extraction Technique.

9.1.1.1 Method - Attachment I.

9.1.2 Soil extraction – Attachment II

9.2 HPLC OPERATING CONDITIONS

9.2.1 The recommended HPLC operating conditions:

Flow Rate:	1 ml/min
Run Time:	10 min
Solvent:	Mobile phase listed in sec 7.4
Column:	Hamilton PRP-x200 10um 150x4.1
Column Temperature:	30° C
Diode Array Detector:	Sig. 1 – 268 wavelength – 4 b.w.

NOTE: These values may change to optimize the efficiency.

9.3 HPLC SAMPLE ANALYTICAL PROCEDURE

9.3.1 Sample Analysis

- 9.3.1.1 Analyze each extract by HPLC by injecting 50 μL onto the column.
- 9.3.1.2 Chemstation associated with each system controls the HPLC. To access the control, use the dropdown “Programs/Agilent Chemstations / Instrument 1 online”.
- 9.3.1.2.1 Once in the software, under “Sequence”, choose “sequence parameters”. Fill out only the subdirectory line with the current Julian date, then click on “ok”. Then under “Sequence” choose “sequence table”. The following categories will need to be filled in:
 - 9.3.1.2.1.1 **Vial:** Location sample is in tray
 - 9.3.1.2.1.2 **Name:** Name of sample
 - 9.3.1.2.1.3 **Method:** Instrument method to run
 - 9.3.1.2.1.4 **Data File:** Julian date and “01”, “02”.
- 9.3.2 After the sequence is set up, run the sequence by using the “Run Sequence” button.
- 9.3.3 Store the extracts at ambient or less, in crimp-top vials with non pierced Teflon lined septa.

9.4 Quantitative Analysis - Target Analytes

- 9.4.1 One criteria must be satisfied to verify the identifications of compounds in the sample:
 - 9.4.1.1 Elution of the sample component at the same relative retention time as the standard component.
 - 9.4.1.2 The sample component RRT must compare within ± 0.1 RRT as the standard component
- 9.4.2 Concentration calculation
 - 9.4.2.1 The average response factor from the initial calibration is used to calculate the concentration in the sample:

Equation 5

$$\text{Concentration (ug/L)} = \frac{(A_x)(V_t)}{(RF)(W_o)(V_i)}$$

Where:

- A_x = area of the peak for the compound
 W_o = Volume of sample extracted in liters
 V_i = Volume of extract injected (mL)
 V_t = Volume of total extract

\overline{RF} = Average response factor from initial calibration

- Data Reduction, Validation, and Reporting may be referred to in SOP PTD-067.

10.0 SYSTEM MAINTENANCE

- 10.1 Any major system maintenance, such as a “frit replacement” may necessitate a new calibration curve. Refer to PTD-053, Preventative, Routine and non-routine maintenance.
- 10.2 Minor or routine maintenance as defined on each instrument specific run log page should necessitate only the calibration verification.
- 10.3 After modification, reanalysis of samples analyzed while the system was malfunctioning is necessary.

11 QUALITY CONTROL

11.1. Method Blank

- 11.1.1. A method blank is a blank matrix that is carried through the entire analytical scheme (extraction, concentration, and analysis).
 - 11.1.1.1. The initial volume used for the method blank must be approximately equal to the sample aliquots being processed.
 - 11.1.1.2. Method blank analysis must be performed at the following frequency:
 - 11.1.1.2.1. Once each batch.
 - 11.1.1.2.2. With every twenty (20) samples of similar concentration and/or sample matrix.
 - 11.1.1.2.3. Whenever samples are extracted by the same procedure
 - 11.1.1.3. The method blank associated with a specific set or group of samples MUST be analyzed on each HPLC system used to analyze that specific group or set of samples.
 - 11.1.1.4. It is the laboratory's responsibility to ensure that method interferences caused by contaminants in solvents, reagents, glassware, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines be minimized.
 - 11.1.1.5. An acceptable laboratory method blank should meet the following criteria:
 - 11.1.1.5.1. For all target compounds, the method blank should contain less than half the quantitative limit of any single target analyte.
 - 11.1.1.5.1.1. If a laboratory method blank exceeds criteria, the source of the contamination should be

investigated and appropriate corrective measures must be taken.

11.1.1.5.1.2. All sample processed with an unacceptable method blank must be re-prepared (if additional raw sample is available) and reanalyzed.

11.1.1.6. The laboratory will report ALL sample concentration data as UNCORRECTED for blanks.

11.2. Laboratory Control Samples (LCS)

11.2.1. An LCS and an LCS duplicate shall be analyzed at a frequency of each analytical batch or once per 20 samples, whichever is more frequent, and consists of a control matrix injected with target analytes.

11.2.1.1. The control matrices are deionized water or sand.

11.2.1.2. The recoveries and RPDs are calculated as follows and are used to verify that the precision and bias of the analytical process are within control limits.

Equation 6

$$\text{LCS Recovery} = \frac{\text{SSR} \times 100\%}{\text{SA}}$$

Where: SSR = Spike Sample Results

SA = Spike Added from spiking mix

Equation 7

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where: RPD = Relative Percent Difference

A = First Sample Value

B = Second Sample Value (duplicate)

11.2.1.3. The results of the LCS are compared to control limits established by the laboratory.

11.2.1.4. If a LCS recovery falls outside of the limits, perform the following steps:

11.2.1.4.1. Check to be sure there are no errors in calculations, standards preparation and spiking of the LCS solution, or problems with the instrument performance. If an error or problem

is found and it can be corrected by amending the calculations and the result falls within the limits, accept the data report it without a qualifier.

- 11.2.1.4.2. For cases where the LCS recovery is above the QC limits, the decision can be made to accept the data if affected target analytes is not detected in the associated sample(s).
- 11.2.1.4.3. Reanalyze the LCS once if the above steps failed to reveal or correct a problem. If the LCS recovery is within limits in the reanalysis, accept the associated sample data.
- 11.2.1.4.4. If the recovery is outside of the limits after reanalysis, re prepare and re analyze the LCS and all associated samples when raw sample is available. If the LCS recovery is within limits in this analysis, accept the second set of data.

12. METHOD PERFORMANCE

- 12.1. There are several requirements that should be met to insure that this procedure generates accurate and reliable data. A general outline of requirements has been summarized below. Further specifications may be found in the Laboratory Quality Manual and specific Standard Operating Procedures.
 - 12.1.1. The analyst must read and understand this procedure with written documentation maintained in his/her training file.
 - 12.1.2. An initial demonstration of capability (IDC) must be performed. A record of the IDC will be maintained in his/her file with written authorization from the Laboratory Manager and Quality Manager.
 - 12.1.3. An annual minimum detection limit (MDL) study will be completed for this method and whenever there is a major change in personnel or equipment. Results are stored in the QA office.

13. POLLUTION PREVENTION AND WASTE MANAGEMENT

- 13.1. The quantity of chemicals purchased is based on expected usage during its shelf life and disposal cost of unused material. Actual reagent preparation volumes reflect anticipated usage and reagent stability.
- 13.2. The Environmental Protection Agency (USEPA) requires that laboratory waste management practice be conducted consistent with all applicable rules and regulations. Excess reagents, samples and method process wastes are characterized and disposed of in an acceptable manner. For further information on waste management consult SOP All-S-002.

14. REFERENCES

- 14.1 All Pace Analytical Services, Inc. SOP references are to the current issue of the

document available at the time this procedure was prepared. As these documents are revised they will supersede the reference documents. The requirements of the most current approved copy shall be implemented for compliance with the requirements of the procedure.

- 14.2 EPA 500 Series – Method 550.1 - PAH analysis in drinking water by HPLC
- 14.3 SW-846 Method 3535 Solid Phases Extraction

15 ATTACHMENTS

- 15.1 Table I: Analytes and Quantitation Limits
- 15.2 Attachment I: Extraction procedure

16 REVISIONS

First Issue

Table I: Analytes And Estimated Quantitation Limits

Compound	CAS Number	Reporting Limit, ug/L
Tributyl tetradecyl phosphonium chloride	81741-28-8	10

Compound	CAS Number	Reporting Limit, ug/kg
Tributyl tetradecyl phosphonium chloride	81741-28-8	200

Attachment I: Extraction Method SW3535

Extraction Procedure: SW3535

HOLDING TIME: Samples should be extracted within 7 days from sample collection.

QC Requirements: A method blank (MB) and LCS/LCSD should be performed each day or every 20 samples, whichever is more frequent.

Final Solvent: Acetonitrile (ACN)

Extraction: -Make sure that collection vessel is empty before starting

-pre measure out 1000 mls of sample (or DI water for blank)

-turn on vacuum pump and adjust vacuum to 5 inHg using in-line valve

-place new solid phase extraction (SPE) cartridge on the manifold

-add 1 ml of Methanol to the cartridge

-Pull approximately half through allow to sit for 2 minutes.

- Pull the remaining methanol through until just before the top of the solvent hits the media, add 2 mls of DI water

-Pull approximately half through and allow to sit for 2 minutes

-Pull the remaining water through until just before the top of the water hits the media, begin adding the 1000 mls of sample by attaching a 60 mL syringe to the SPE cartridge via the blue connector obtained from Phenomenex. Continuously add the sample to the 60 mL syringe until all is added, never letting the SPE cartridge go dry until the sample is completely through.

-Once the sample is completely through, allow to go to dryness, wash the SPE cartridge with 2 mls of additional DI water

-after all of the DI wash has gone through the media, turn the in-line valve open and draw full vacuum and allow to dry for 2 minutes

-open in-line valve to release all vacuum and take the top off of the manifold and place a clean 40 ml VOA vial under the SPE cartridge and re install the top.

-adjust the in-line valve so that 5 in Hg vacuum is reapplied

-add 5 ml of Acetonitrile/3% Formic Acid to the cartridge and slowly pull half through to the collection vial. Allow to sit for approximately 1-2 minutes and slowly pull the

remaining portion into the vial. Repeat this procedure one additional time for a total of 10 mL of elution solvent.

-turn off vacuum, remove your sample and throw away the used SPE cartridge

Finalization: - place 40 ml VOA vial into the “TurboVap” unit and begin to blow the sample down.
-concentrate the sample down to 1 ml

-transfer sample from 40 ml VOA vial into a crip top autosampler vial and bring to 1 ml final volume with acetonitrile

Final Volume: 1.0mL

Attachment II: Soil Extraction

HOLDING TIME: Samples should be extracted within 14 days from sample collection.

QC Requirements: A method blank (MB) and LCS/LCSD should be performed each day or every 20 samples, whichever is more frequent.

Final Solvent: Acetonitrile (ACN)

Extraction: -Weigh out 50 grams of soil into a 250 mL amber glass container

-Spike the QC at a level of 97 ug/mL (100 uL of the stock solution listed in section 8.1.1

-Add 50 mL of Acetonitrile to each container

-Shake on a mechanical shaker for 30 minutes at 200 RPMs

-Remove from the shaker and allow to settle for approximately 15 minutes

-Decant the Acetonitrile into a concentration vessel (Turbovap tube or equivalent)

-Concentrate to a final volume of 1 mL

-Filter each 1 mL extract with a 0.45 um syringe filter prior to analysis on the HPLC



BORING LOG

WELL NO. GP01

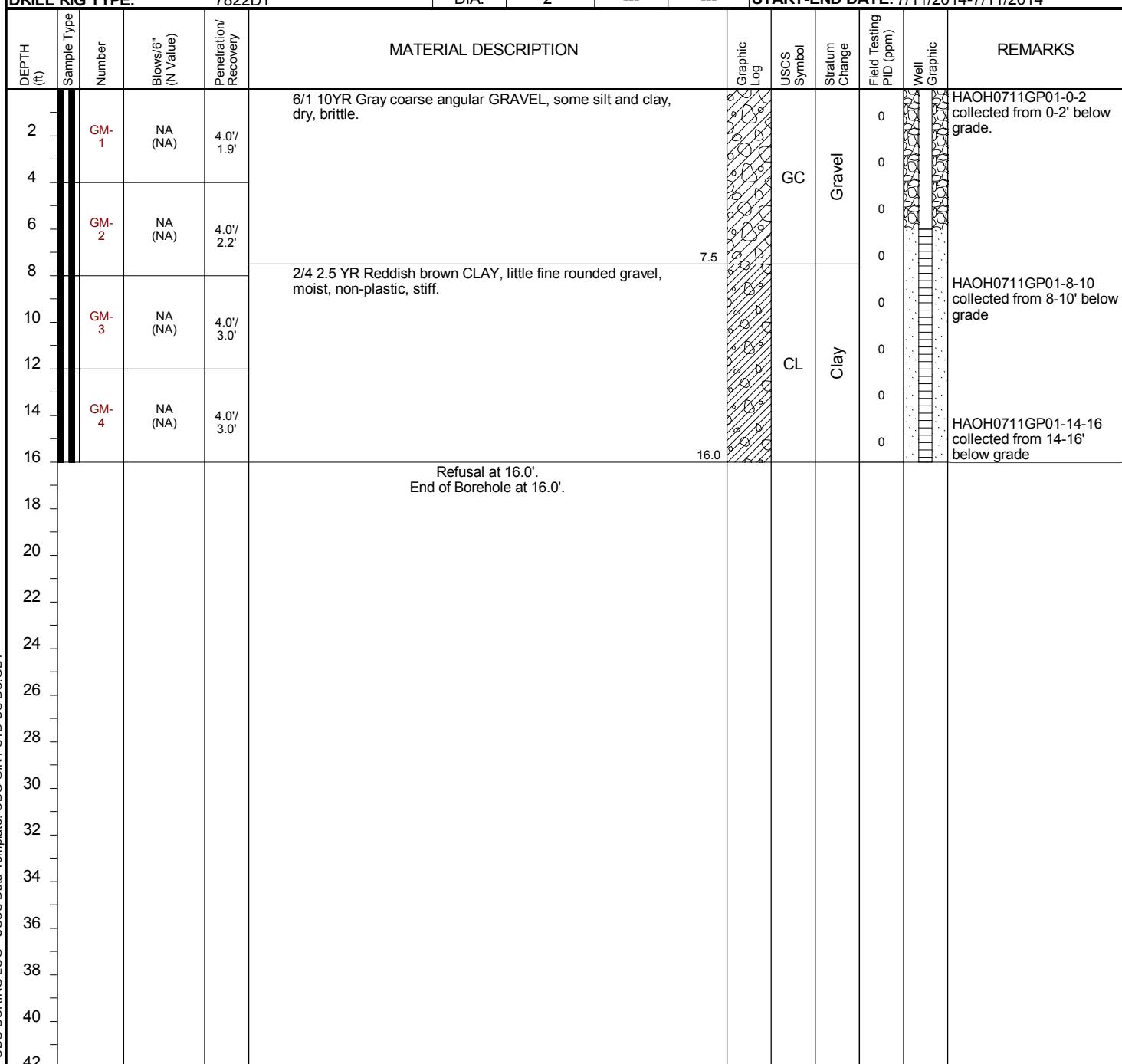
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

SHEET 1 OF 1

JOB NO. 52147.007.001

DRILLING CONTRACTOR: Enviro Core, Ltd**COORDINATES:** N E**DRILLER:** Jake Bradley**GROUND ELEV:****PURPOSE:** Soil Investigation**HORIZ. DATUM:****DRILLING METHOD:** Direct Push**VERT. DATUM:****DRILL RIG TYPE:** 7822DT**START-END DATE:** 7/11/2014-7/11/2014

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---





BORING LOG

WELL NO. GP02

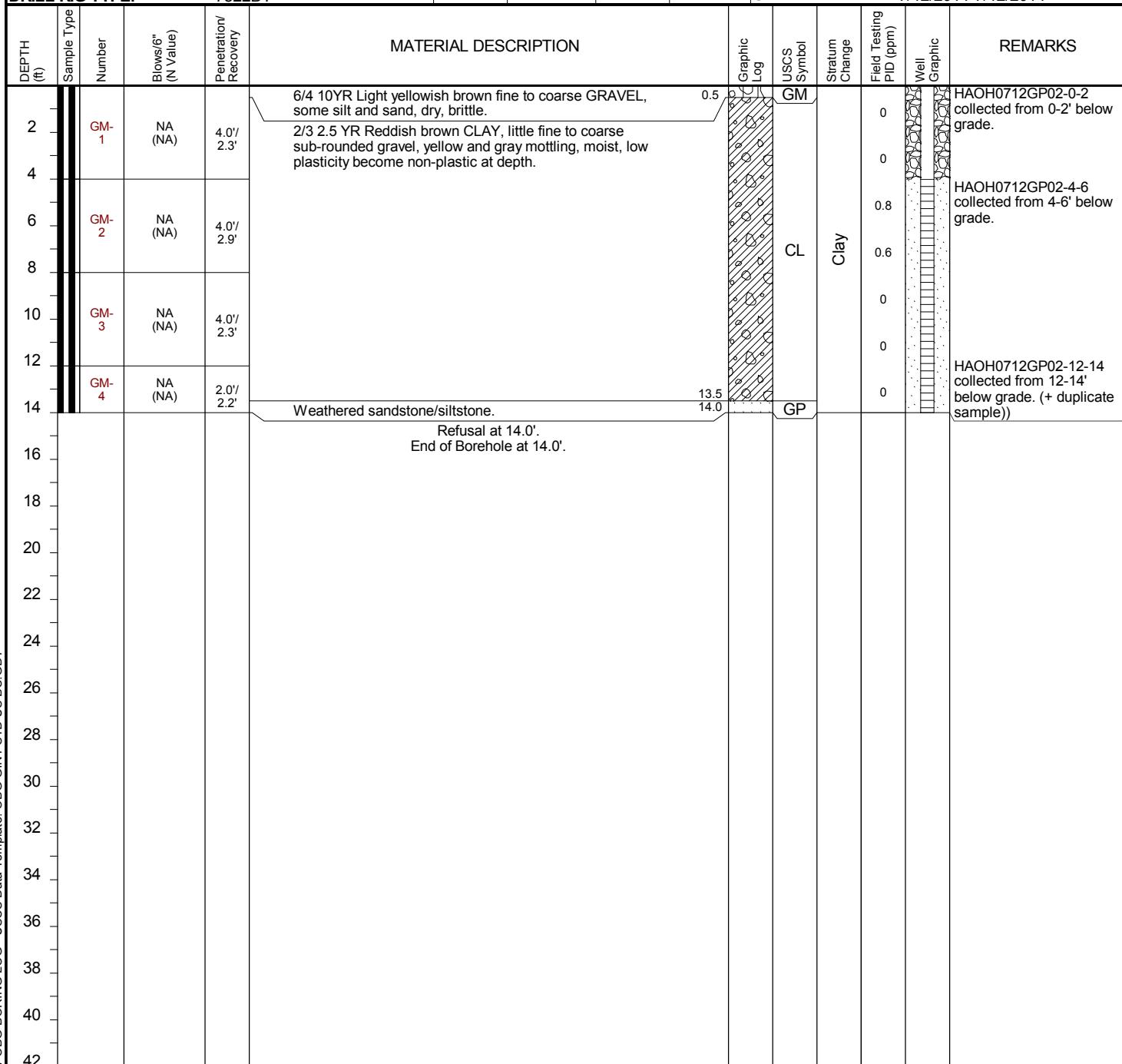
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/12/2014-7/12/2014





BORING LOG

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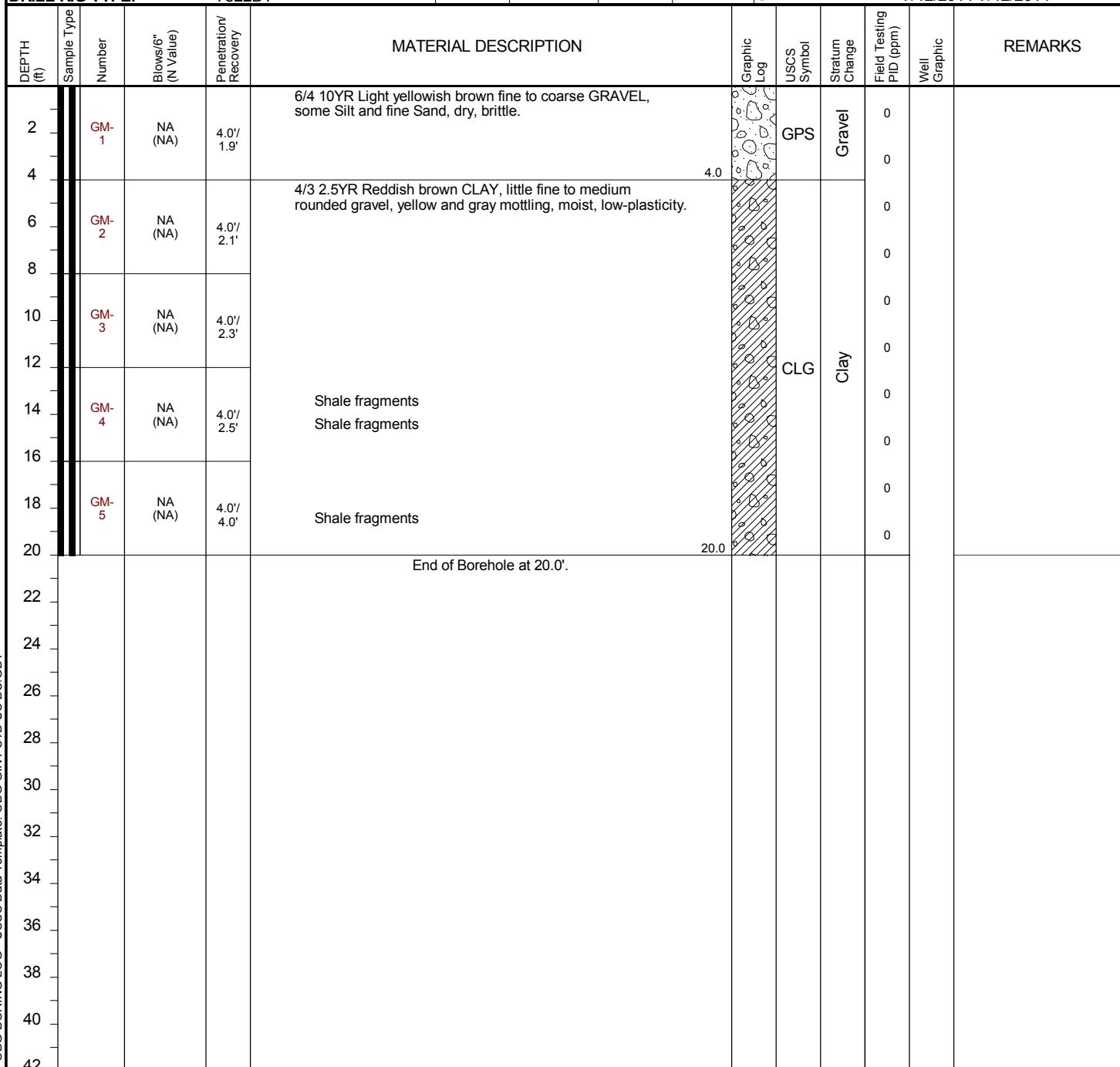
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monico

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
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HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/12/2014-7/12/2014





BORING LOG

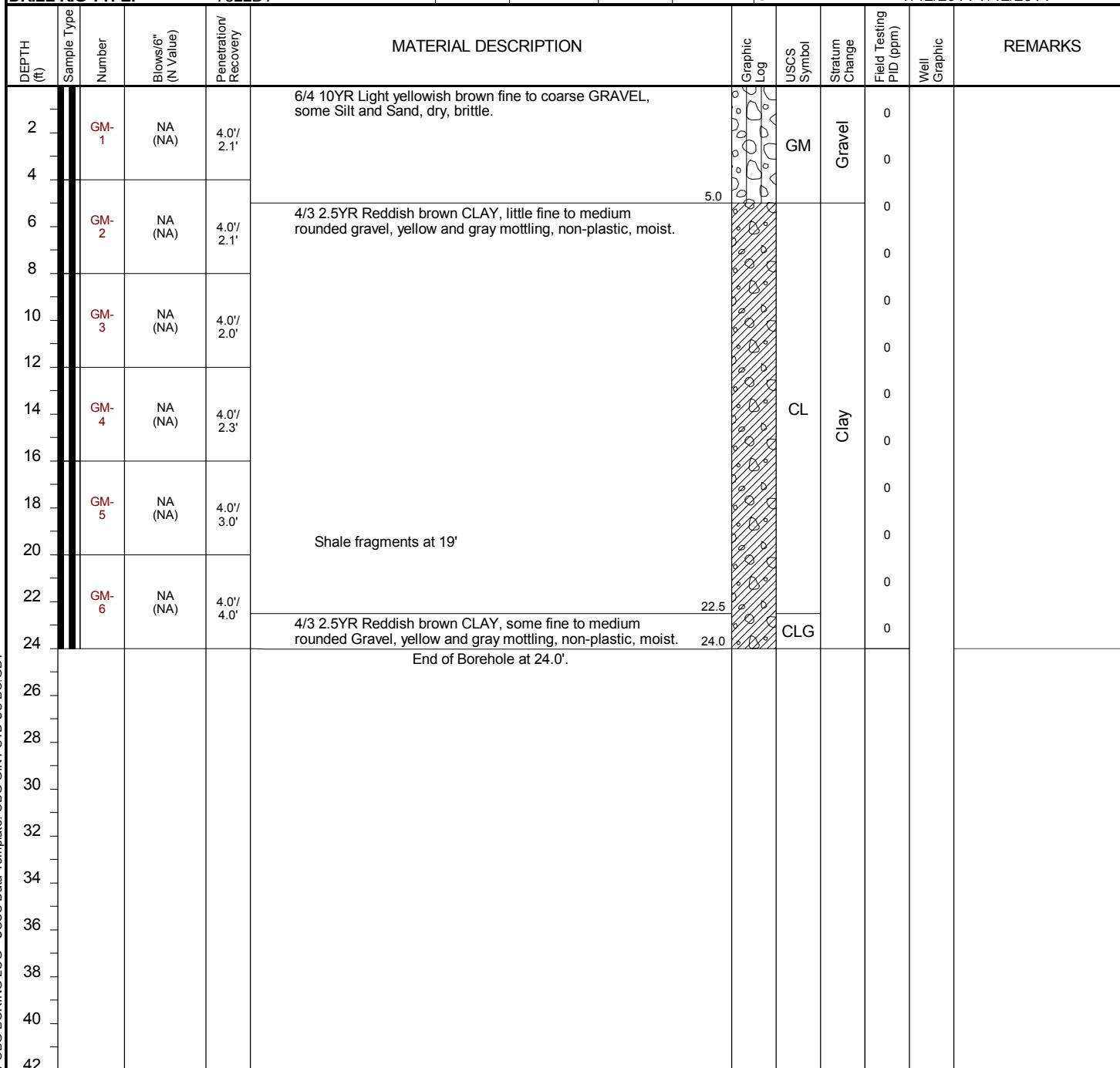
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CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/12/2014-7/12/2014





BORING LOG

WELL NO. GP05

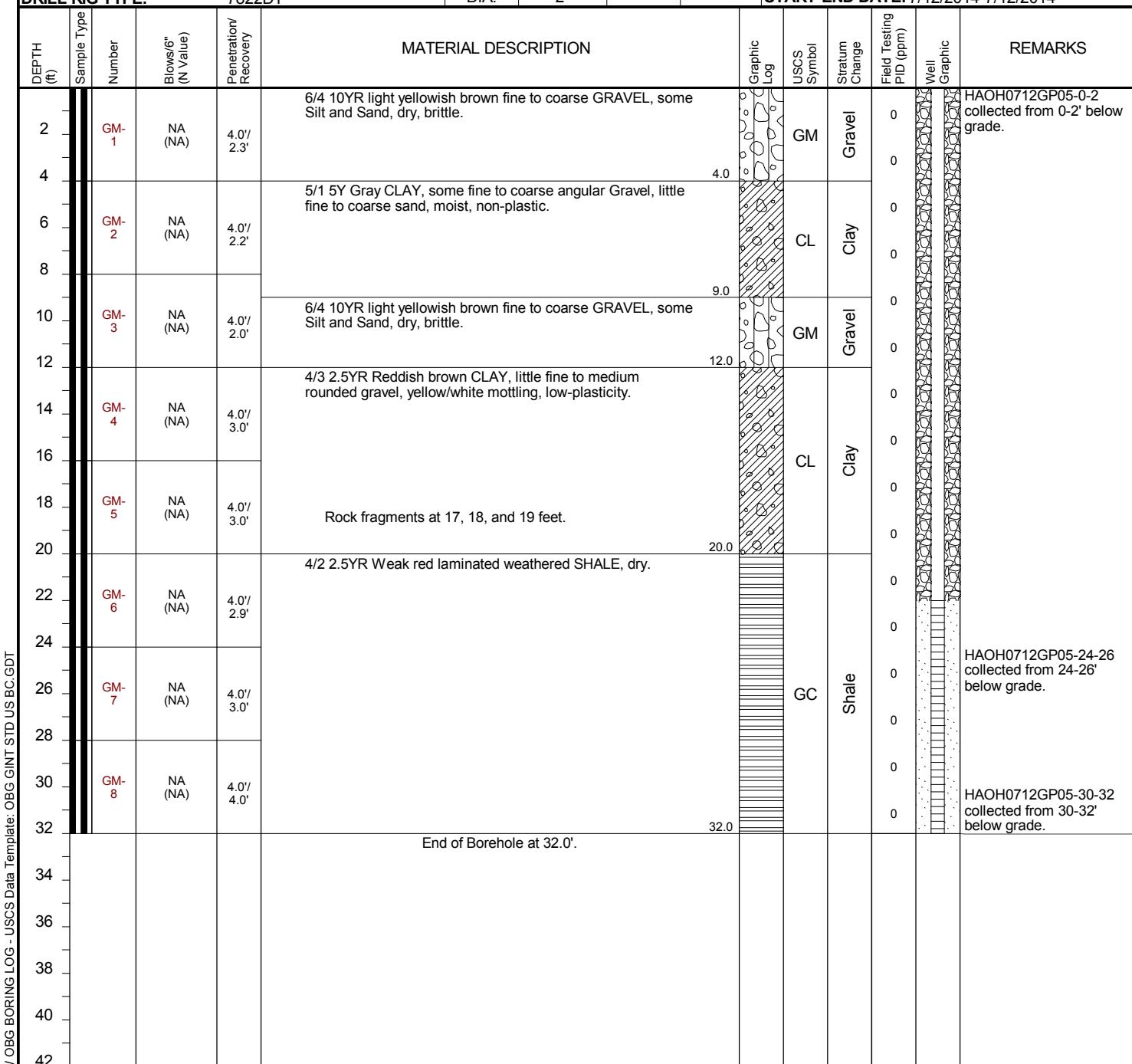
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/12/2014-7/12/2014





BORING LOG

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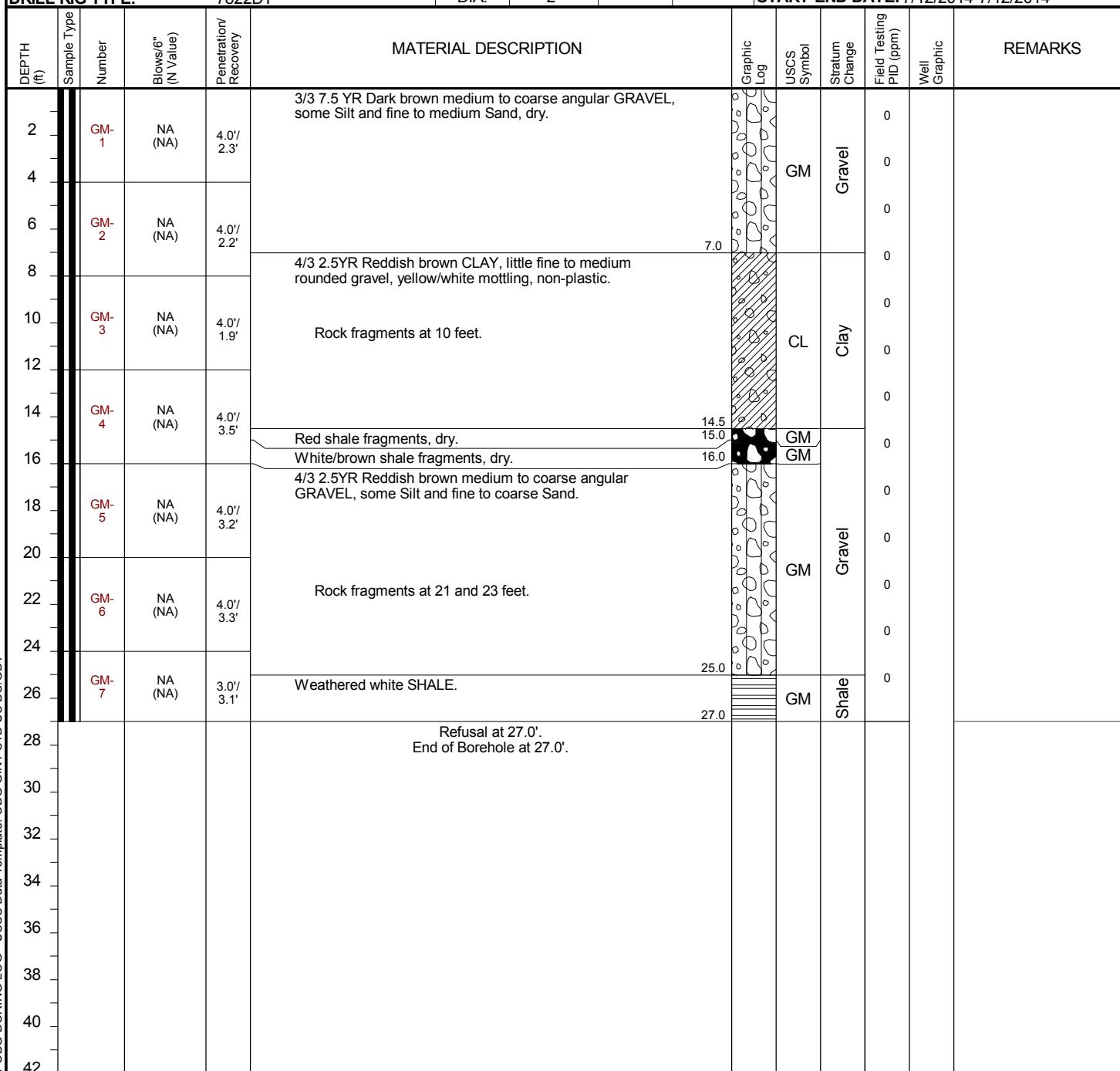
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/12/2014-7/12/2014





BORING LOG

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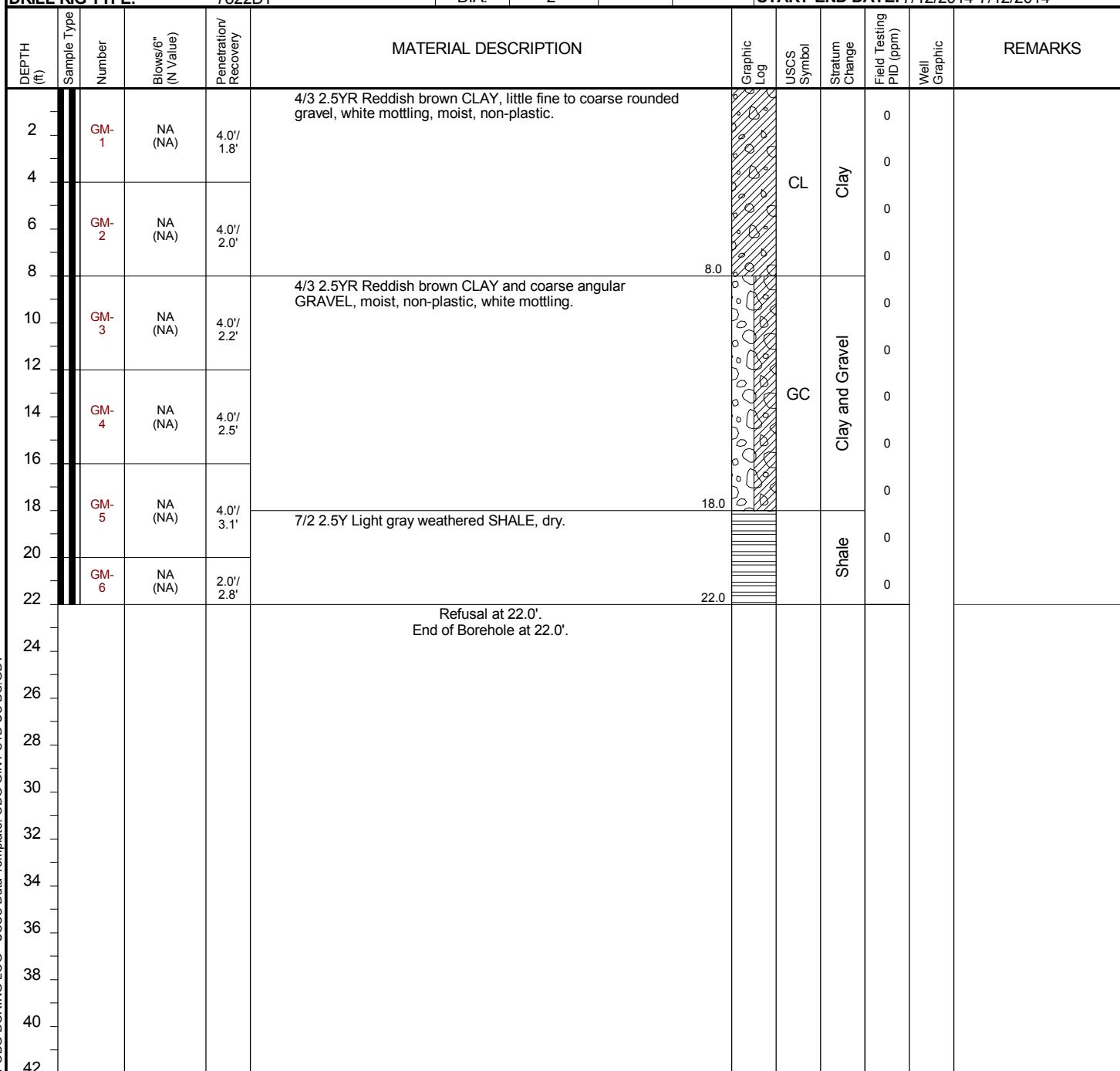
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/12/2014-7/12/2014





BORING LOG

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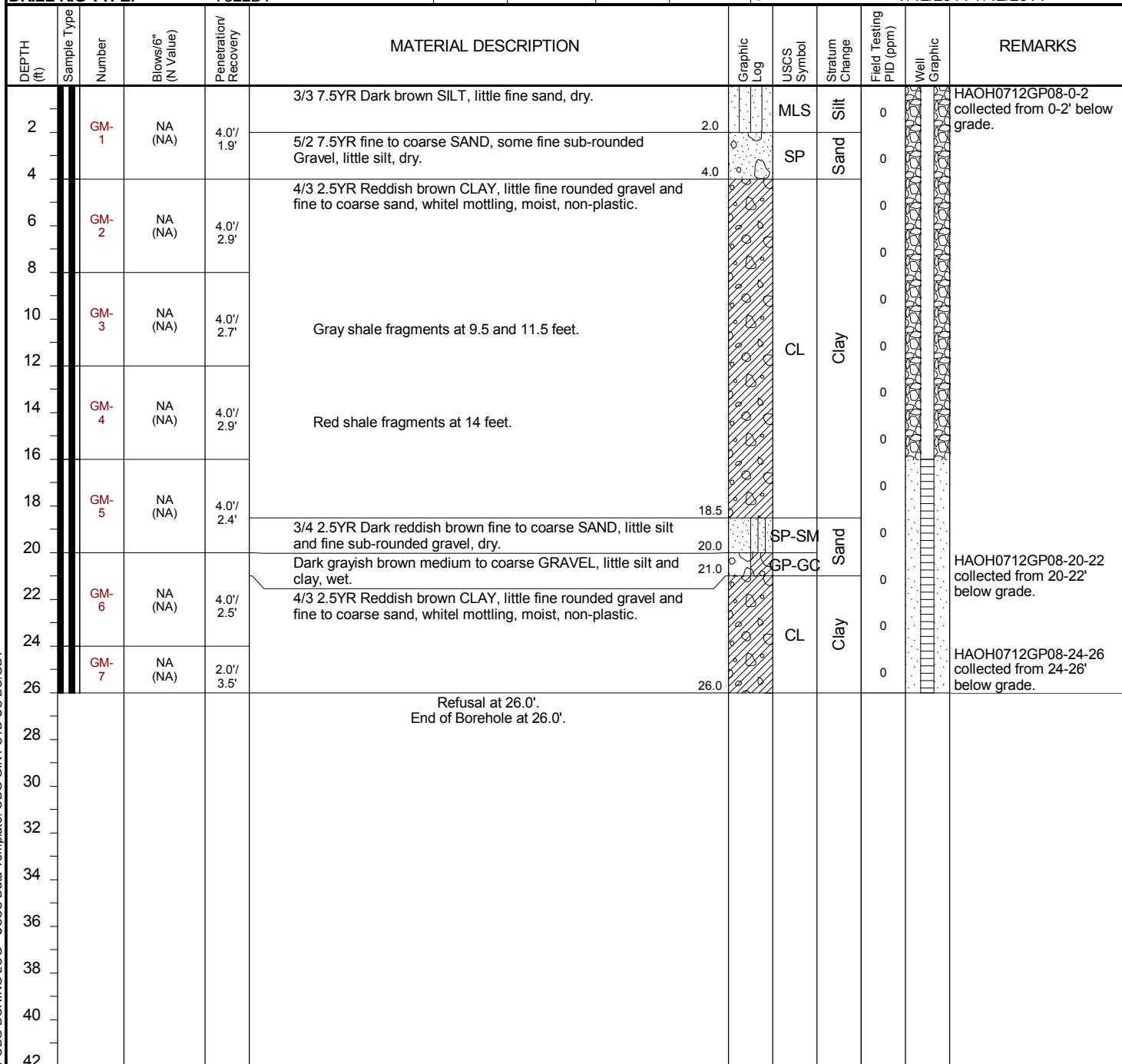
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/12/2014-7/12/2014





BORING LOG

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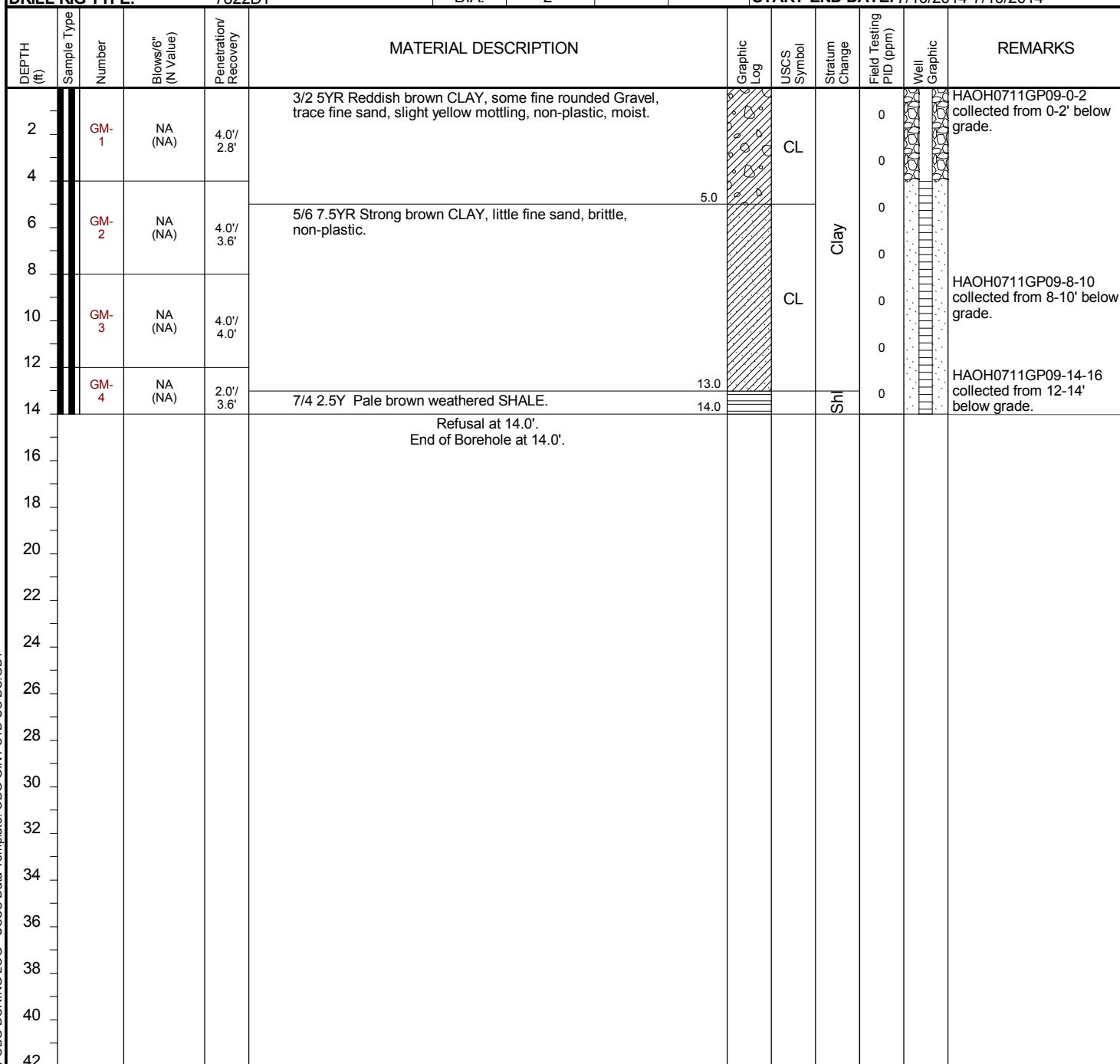
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/10/2014-7/10/2014





BORING LOG

BORING NO. GP10

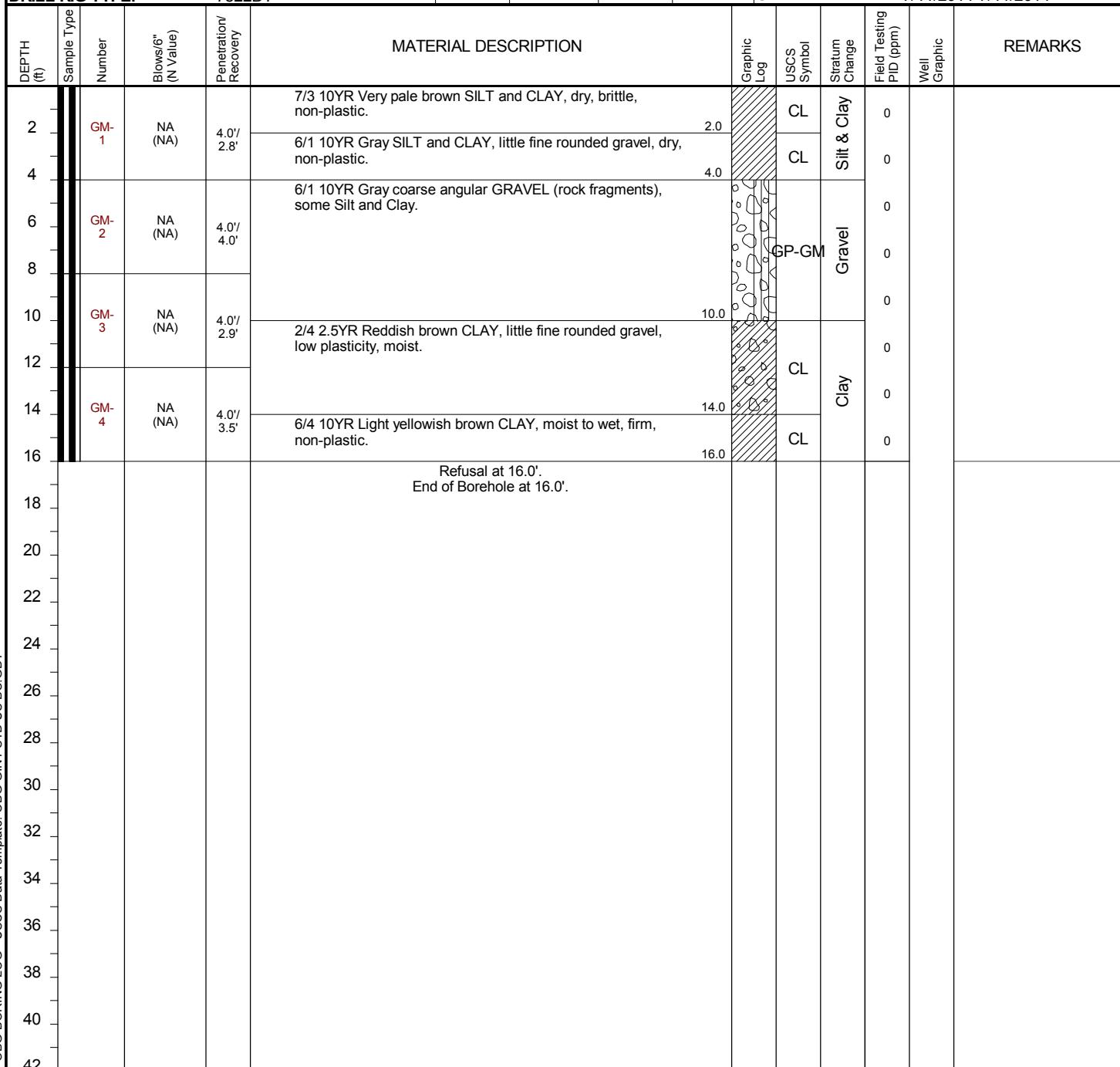
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/11/2014-7/11/2014





BORING LOG

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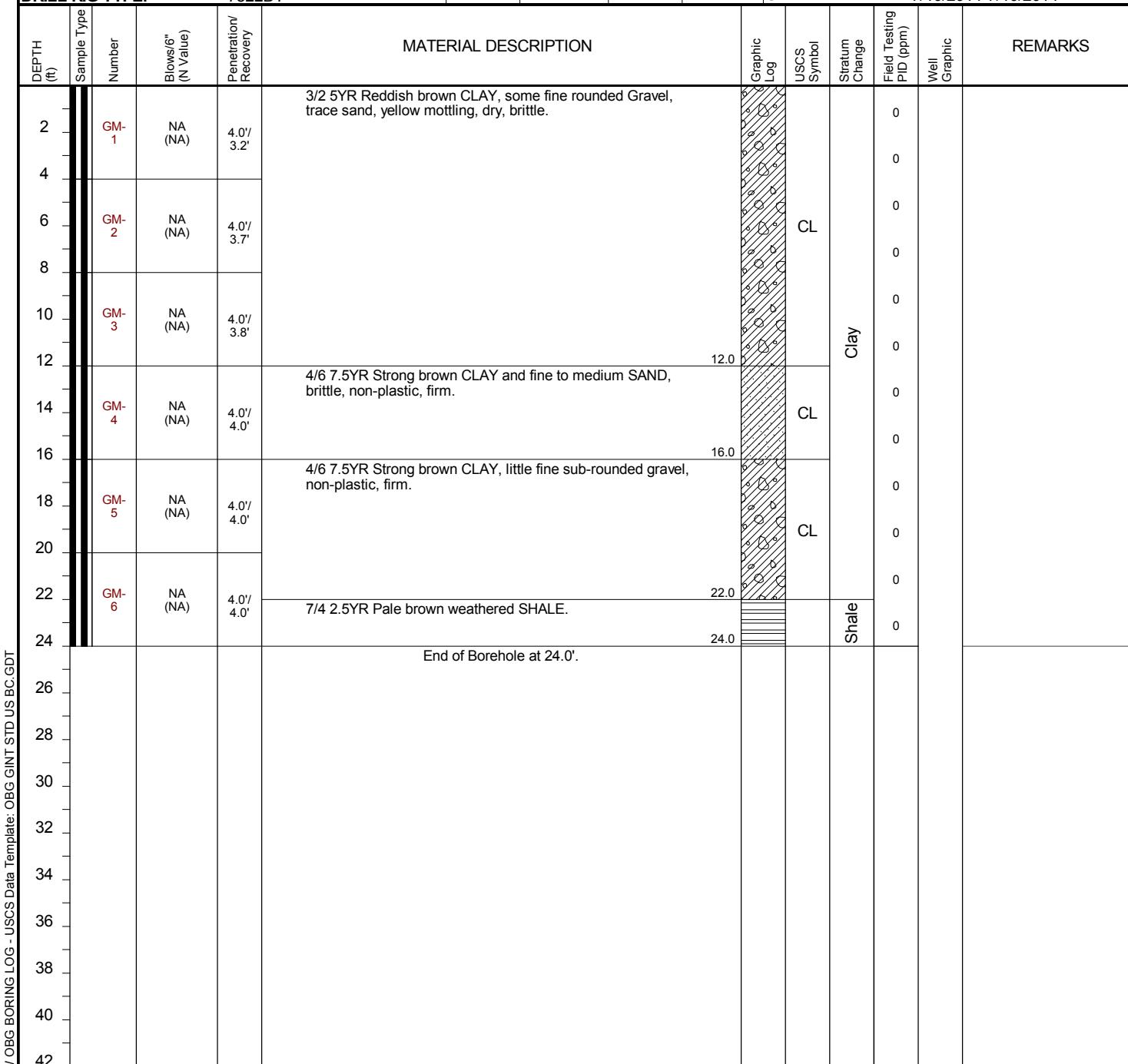
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/10/2014-7/10/2014





BORING LOG

BORING NO. GP12

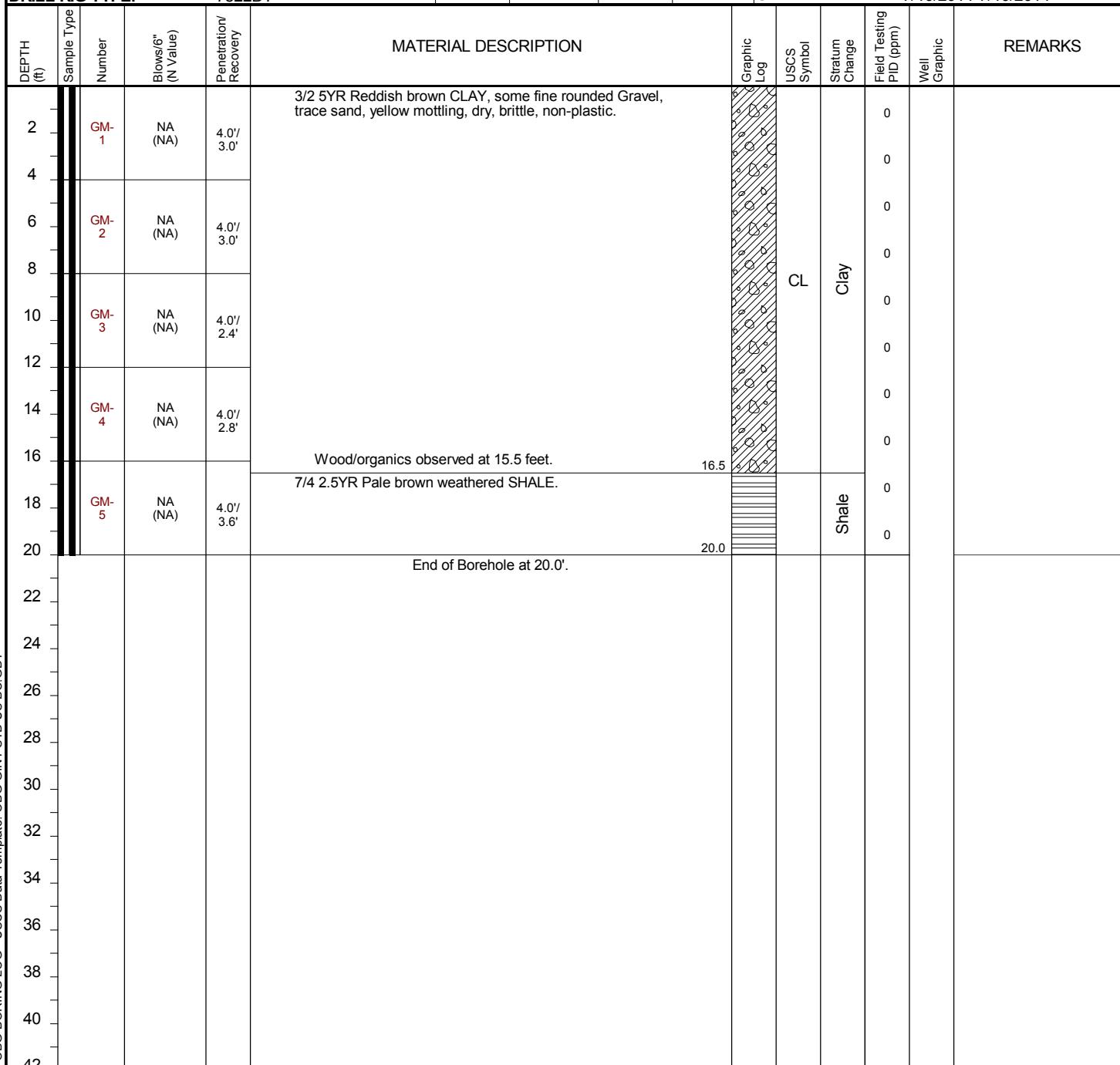
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd**DRILLER:** Jake Bradley**PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/10/2014-7/10/2014



BORING LOG

BORING NO. GP13

PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/10/2014-7/10/2014

DEPTH (ft)	Sample Type	Number	Blows/6' (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
2		GM-1		NA (NA)	3/2 5YR Reddish brown CLAY, little fine to medium rounded gravel, trace fine sand and silt, dry, non-plastic.				0		
4		GM-2		NA (NA)	Yellow/brown shale fragments at 4.5 feet				0		
6					Red/brown shale fragments at 5.5 feet				0		
8									0		
10		GM-3		NA (NA)	Yellow/brown shale fragments at 11.5-12 feet				0		
12		GM-4		NA (NA)	Yellow/brown shale fragments at 15 feet				0		
14		GM-5		NA (NA)	Yellow/brown shale fragments at 19-20 feet				0		
16		GM-6		NA (NA)	Yellow/brown shale fragments at 21.5 feet				0		
20					End of Borehole at 24.0'.	24.0	CL	Clay	0		
22									0		
24									0		
26											
28											
30											
32											
34											
36											
38											
40											
42											



BORING LOG

BORING NO. GP14

PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/10/2014-7/10/2014

DEPTH (ft)	Sample Type	Number	Blows/6' (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing P/D (ppm)	Well Graphic	REMARKS
2		GM-1		NA (NA)	3/2 5yr Reddish brown CLAY, little fine to medium rounded gravel, trace sand and silt, firm, moist, non-plastic.				0		
4		GM-2		NA (NA)	Yellow/brown rock fragments at 5.5 feet.				0		
6		GM-3		NA (NA)	Yellow mottling from 8-12 feet.				0		
8		GM-4		NA (NA)					0		
10		GM-5		NA (NA)	White rock fragments				0		
12		GM-6		NA (NA)	White rock fragments				0		
14									0		
16									0		
18									0		
20									0		
22									0		
24					End of Borehole at 24.0'.	24.0	CL	Clay	0		
26											
28											
30											
32											
34											
36											
38											
40											
42											



BORING LOG

BORING NO. GP15

PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/10/2014-7/10/2014

DEPTH (ft)	Sample Type	Number	Blows/6' (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing P/D (ppm)	Well Graphic	REMARKS
2		GM-1			3/2 5YR Reddish brown CLAY, little fine to medium rounded gravel, trace sand and silt, dry, brittle.				0		
4					Yellow rock fragments at 5 feet				0		
6		GM-2			Yellow rock fragments at 8 feet.				0		
8					Light yellow/brown shale fragments at 11.5-12 feet.				0		
10					Gray mottling from 14.5-16	16.0			0		
12		GM-3			5/3 7.5YR Brown CLAY, little fine rounded gravel, mottled, non-plastic.				0		
14						20.0	CL		0		
16		GM-4			3/2 5YR Reddish brown CLAY, little fine to medium rounded gravel, trace sand and silt, dry, brittle.				0		
18					Shale fragments at 24.5, 26, and 27 feet.				0		
20		GM-5				28.0	CLG		0		
22					End of Borehole at 28.0'.				0		
24		GM-6							0		
26									0		
28		GM-7							0		
30											
32											
34											
36											
38											
40											
42											



BORING LOG

BORING NO. GP16

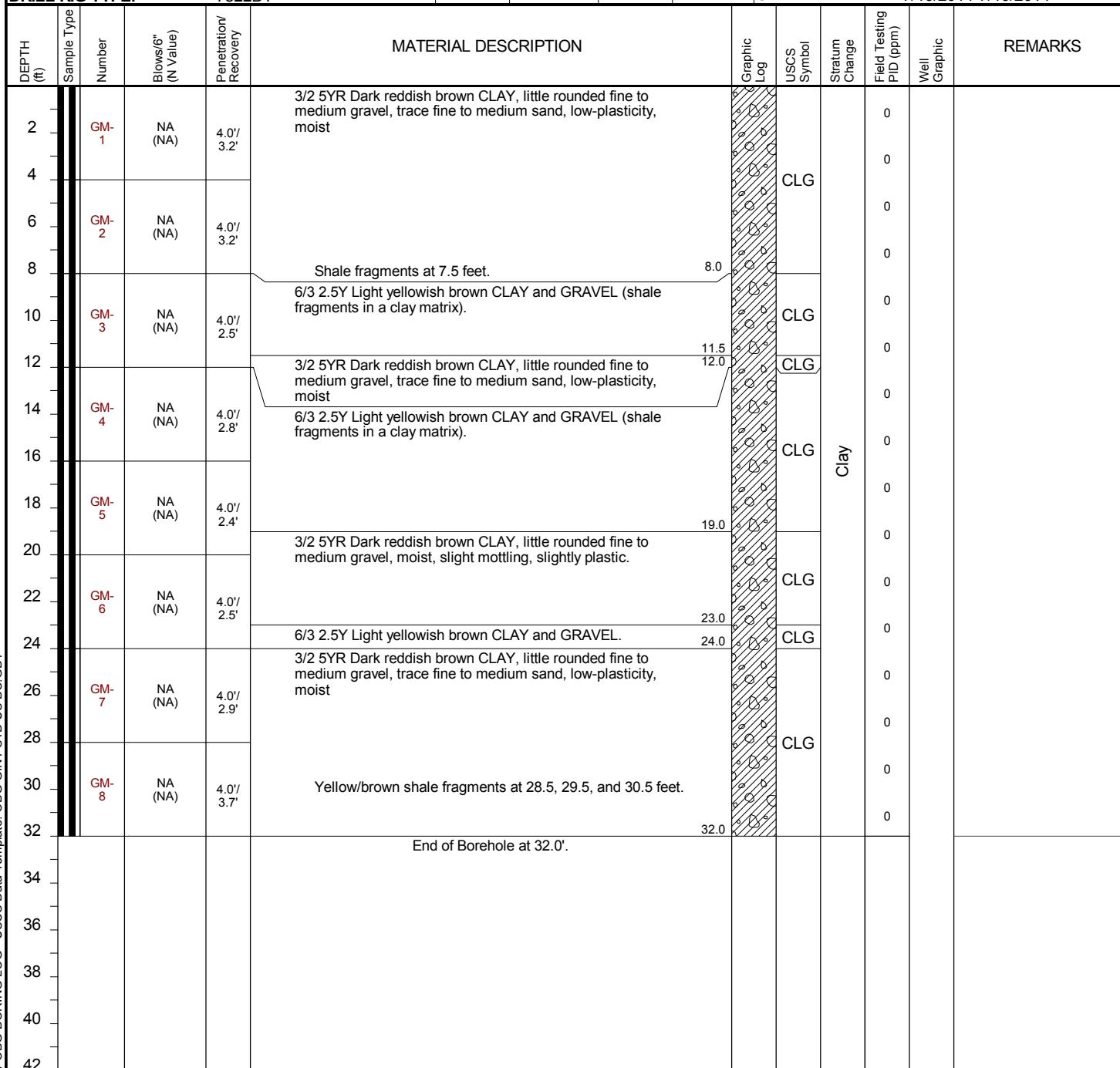
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/10/2014-7/10/2014





BORING LOG

BORING NO. GP17

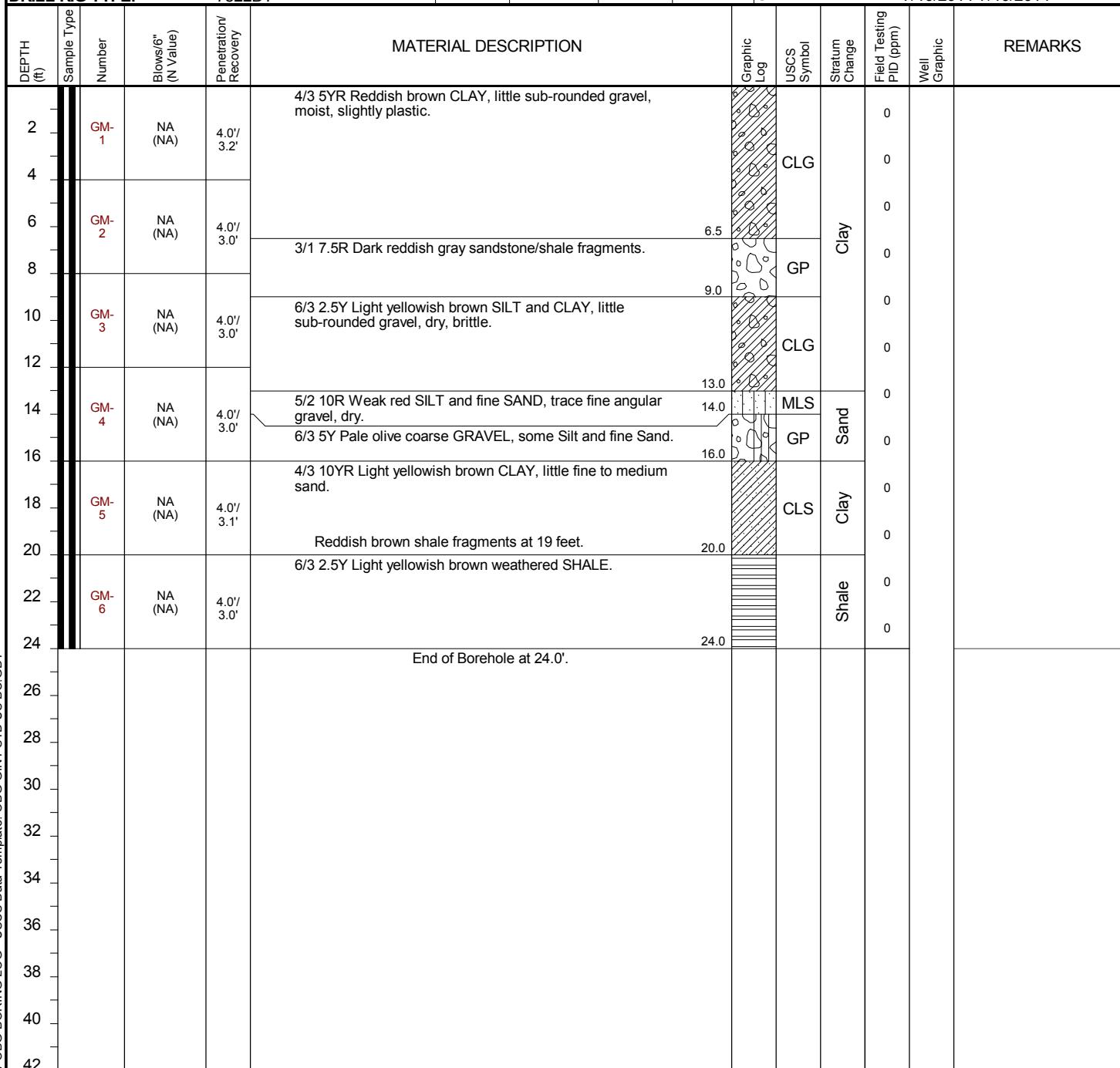
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/10/2014-7/10/2014





BORING LOG

BORING NO. GP18

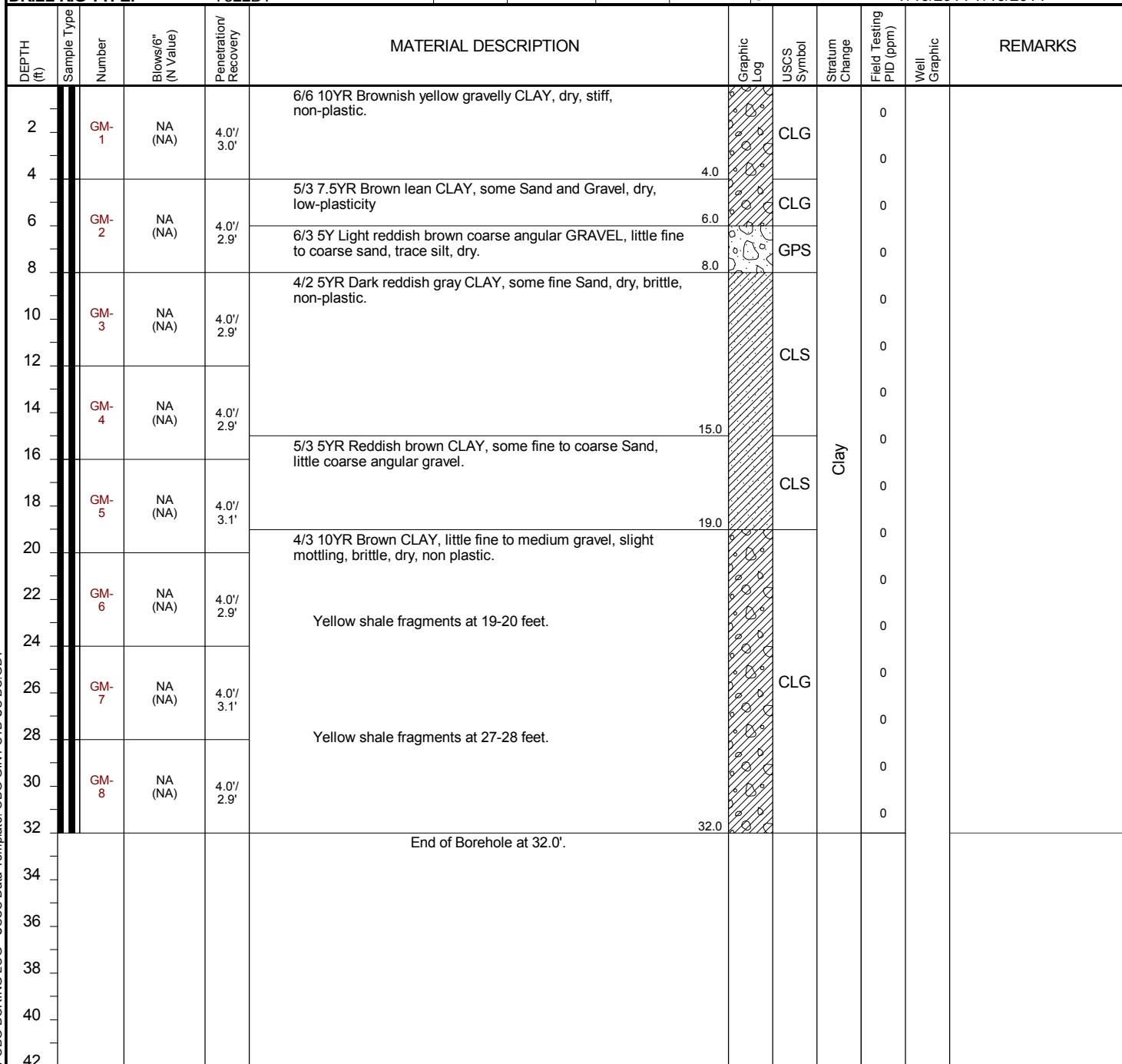
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

SAMPLE	CORE	CASING
TYPE	GM	---
DIA.	2"	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/10/2014-7/10/2014





BORING LOG

WELL NO. GP19

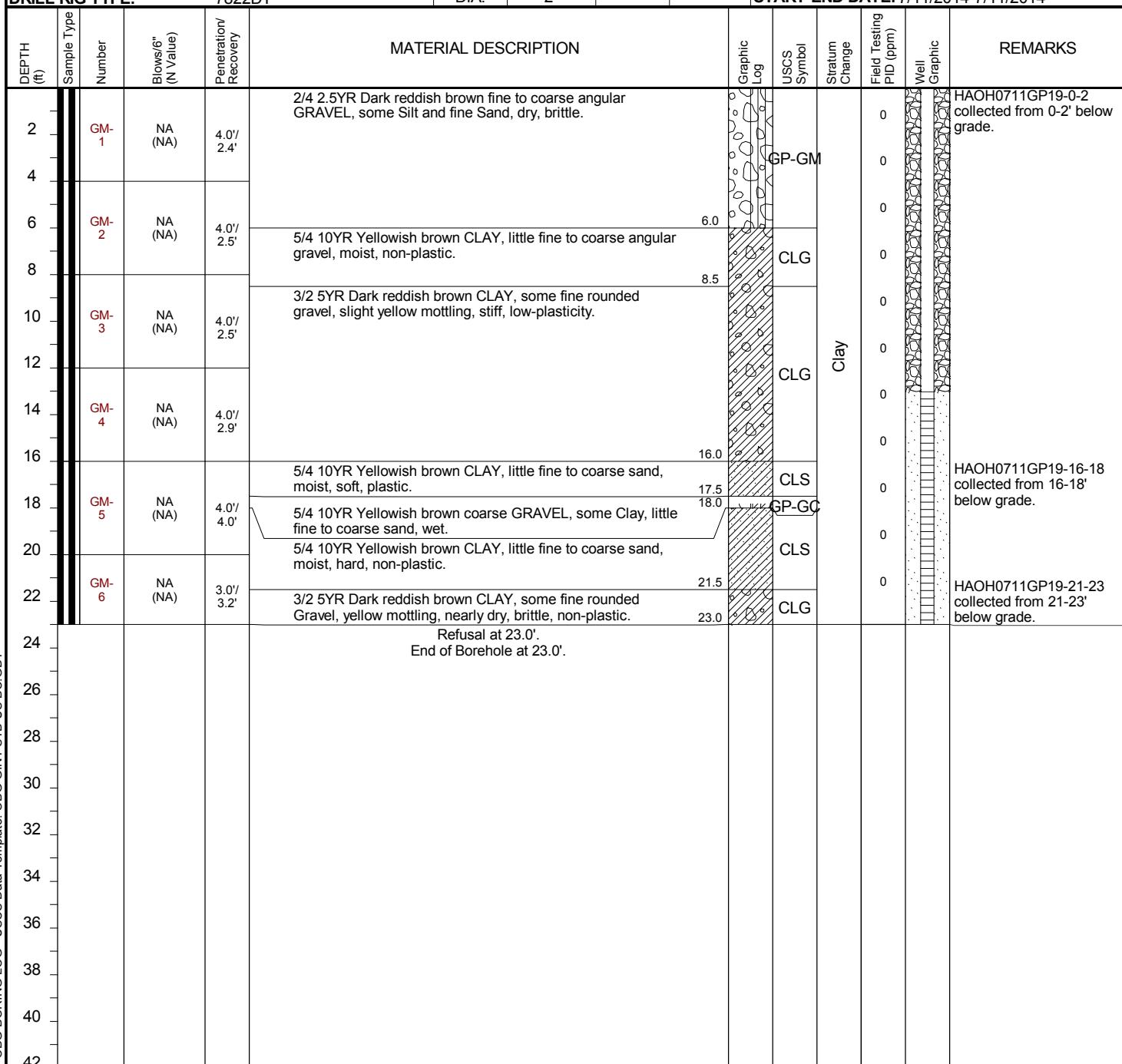
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/11/2014-7/11/2014





BORING LOG

BORING NO. GP20

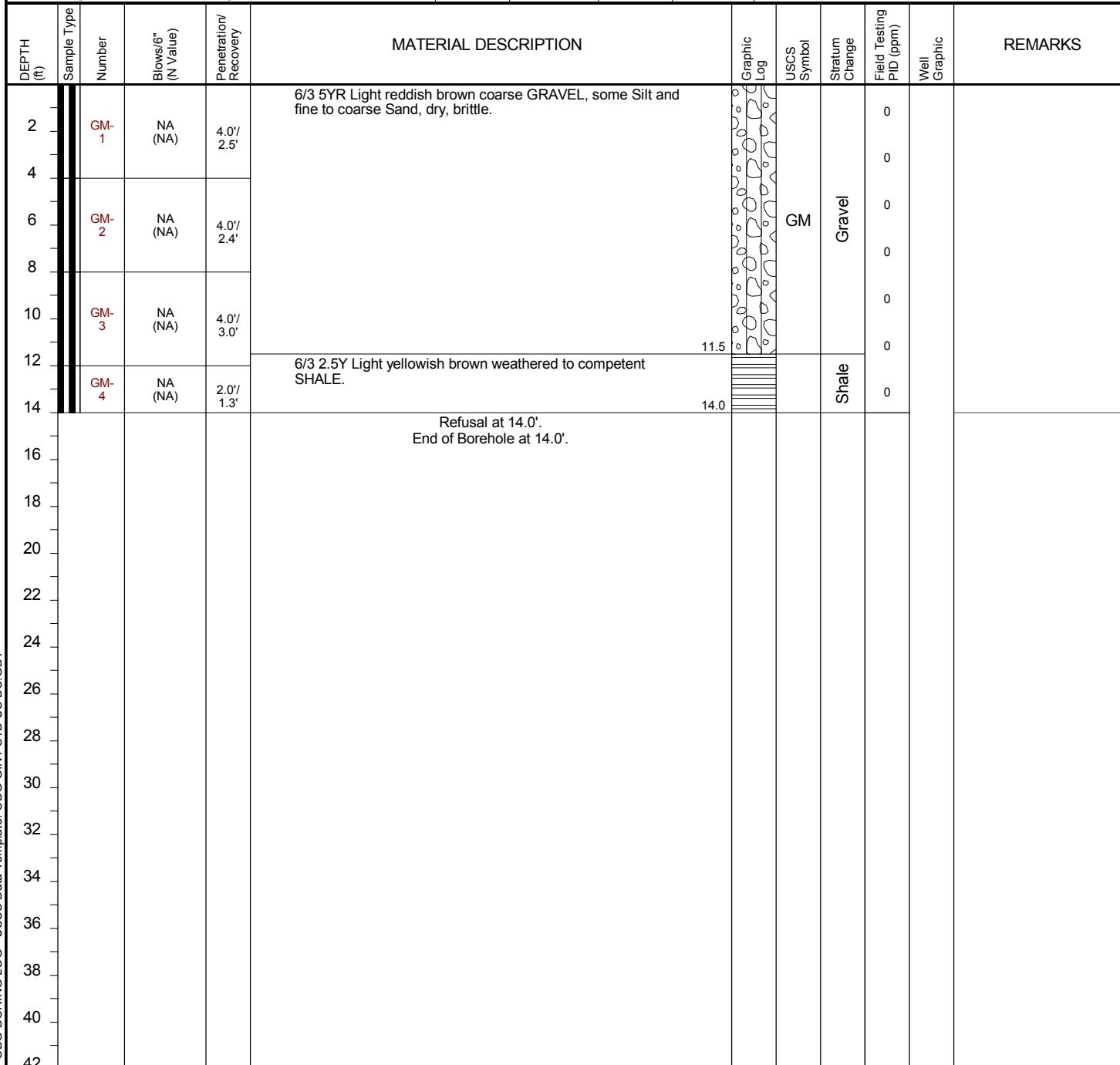
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/11/2014-7/11/2014





BORING LOG

WELL NO. GP21

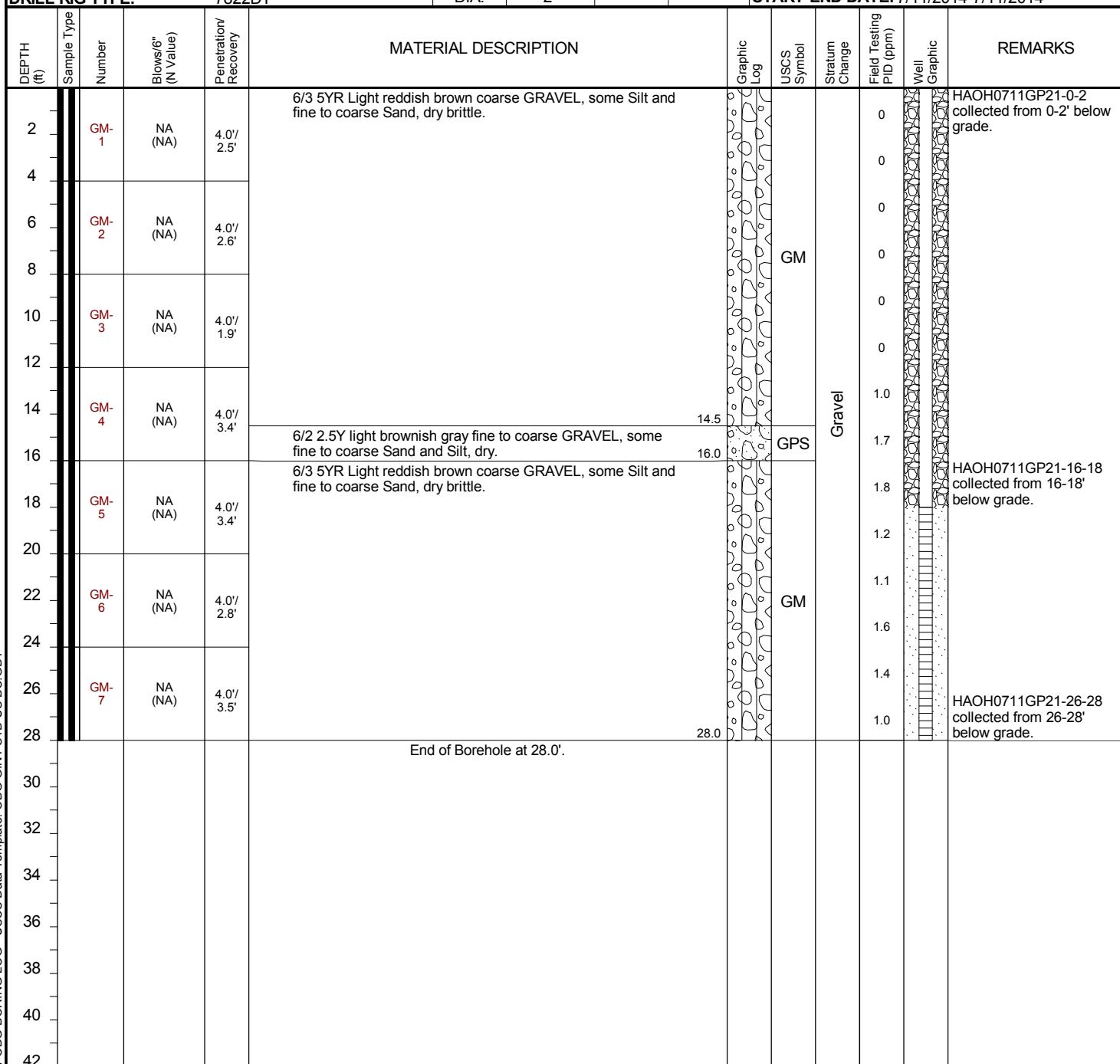
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/11/2014-7/11/2014





BORING LOG

BORING NO. GP22

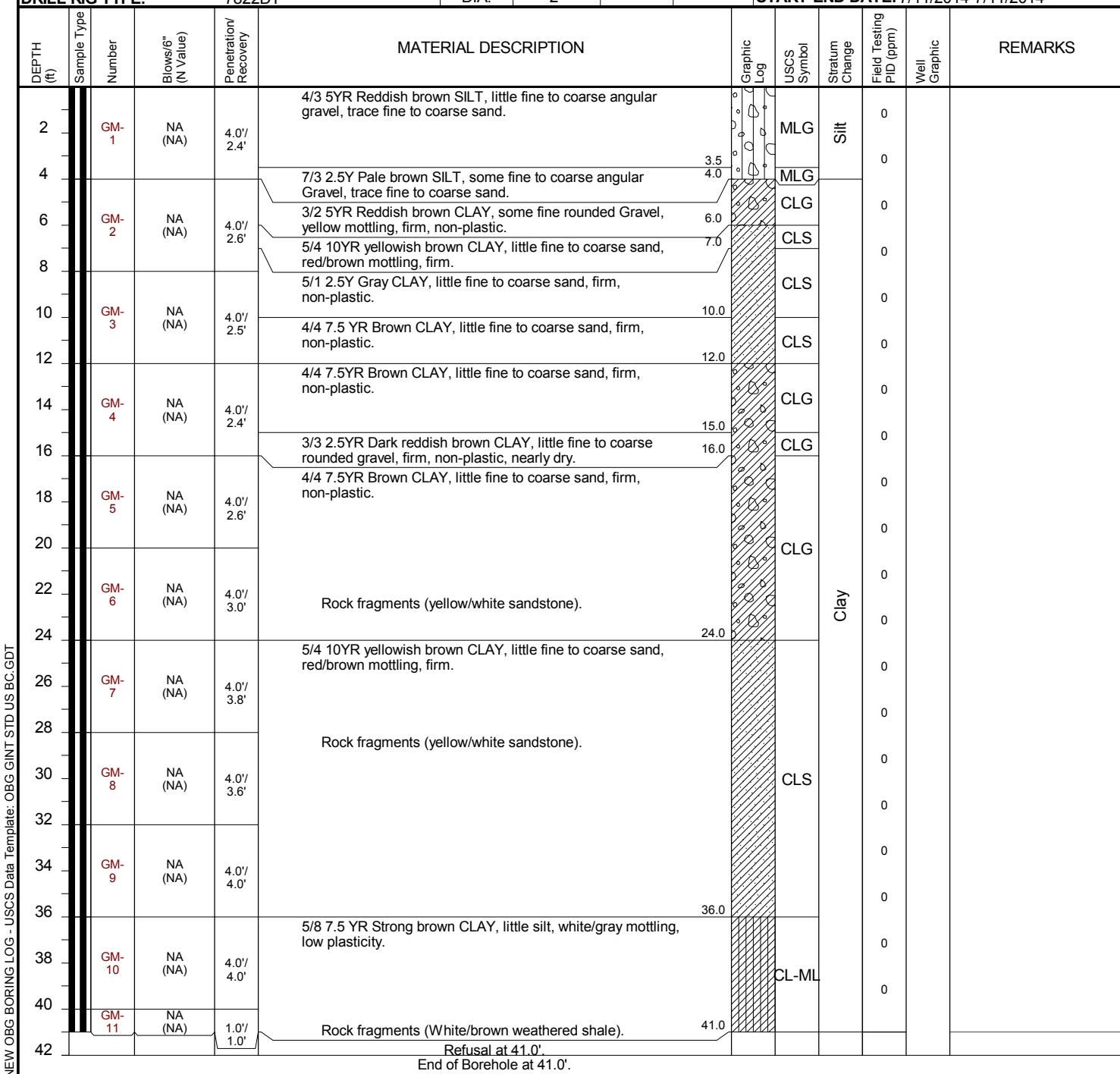
PROJECT: Statoil
 CLIENT: CTEH
 INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
 DRILLER: Jake Bradley
 PURPOSE: Soil Investigation
 DRILLING METHOD: Direct Push
 DRILL RIG TYPE: 7822DT

SAMPLE	CORE	CASING
TYPE	GM	---
DIA.	2"	---

SHEET 1 OF 1
 JOB NO. 52147.007.001

COORDINATES: N E
 GROUND ELEV:
 HORIZ. DATUM:
 VERT. DATUM:
 START-END DATE: 7/11/2014-7/11/2014



Notes:



BORING LOG

WELL NO. GP23

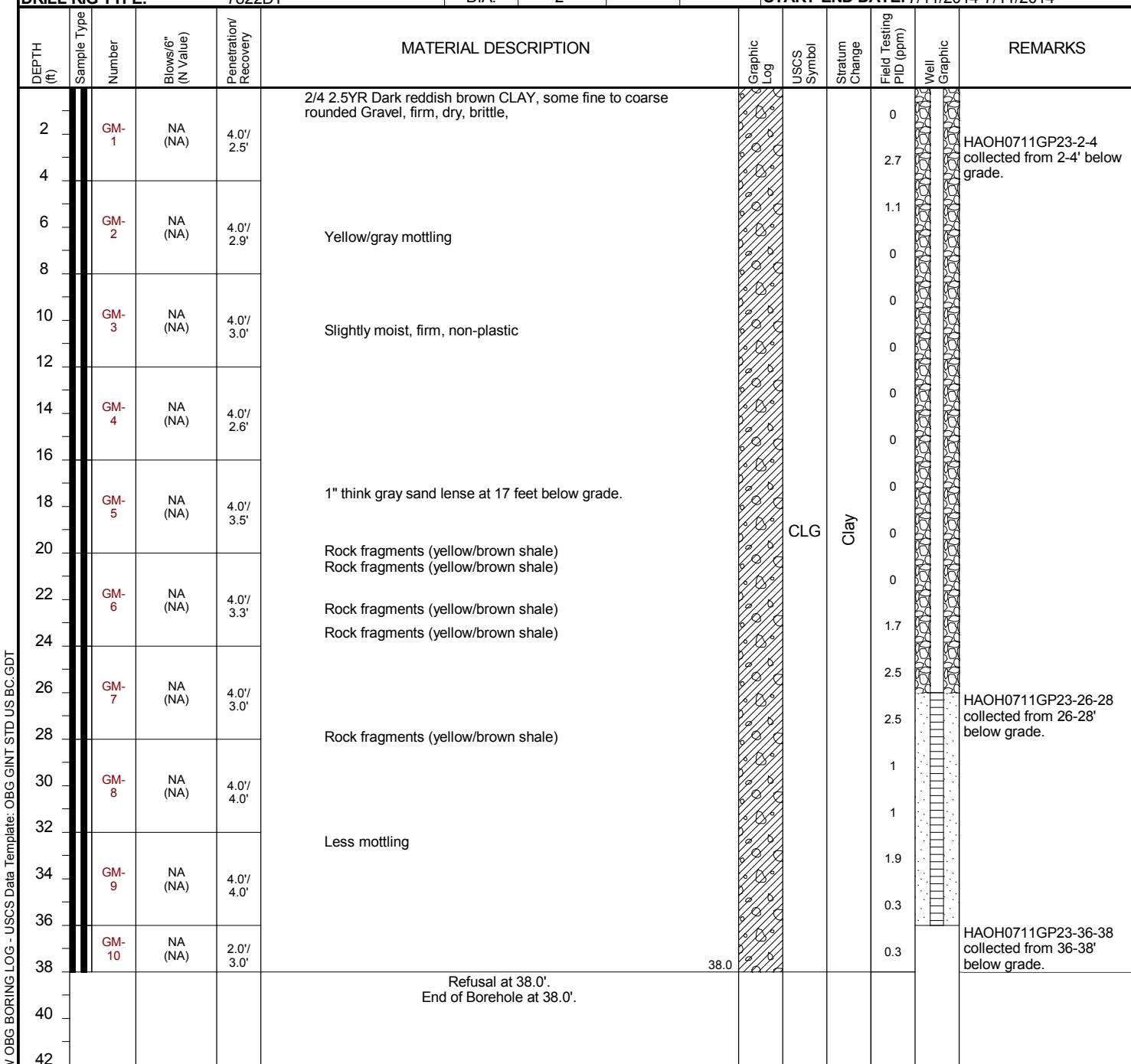
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/11/2014-7/11/2014





BORING LOG

WELL NO. GP24

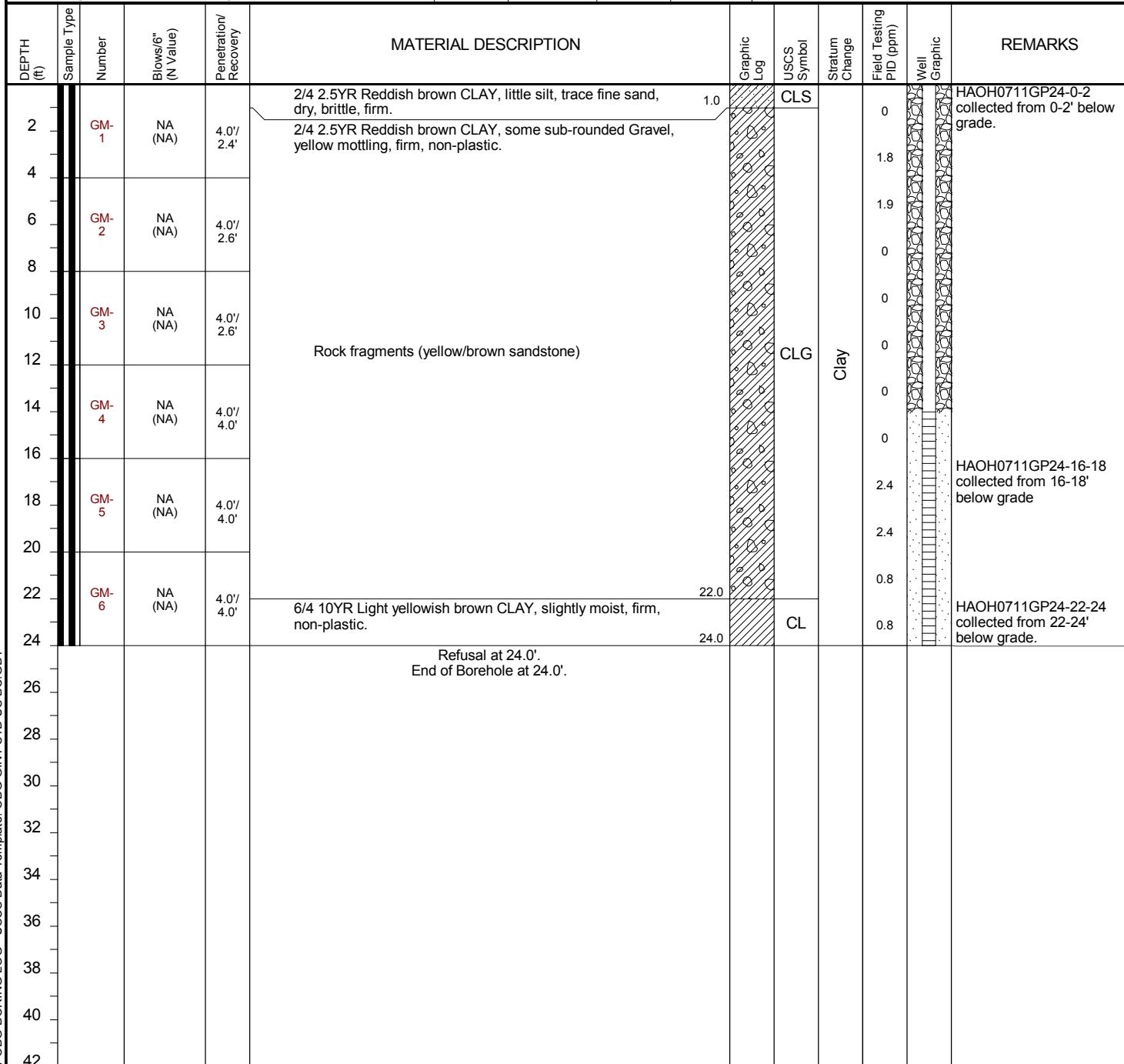
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/11/2014-7/11/2014





BORING LOG

BORING NO. GP25

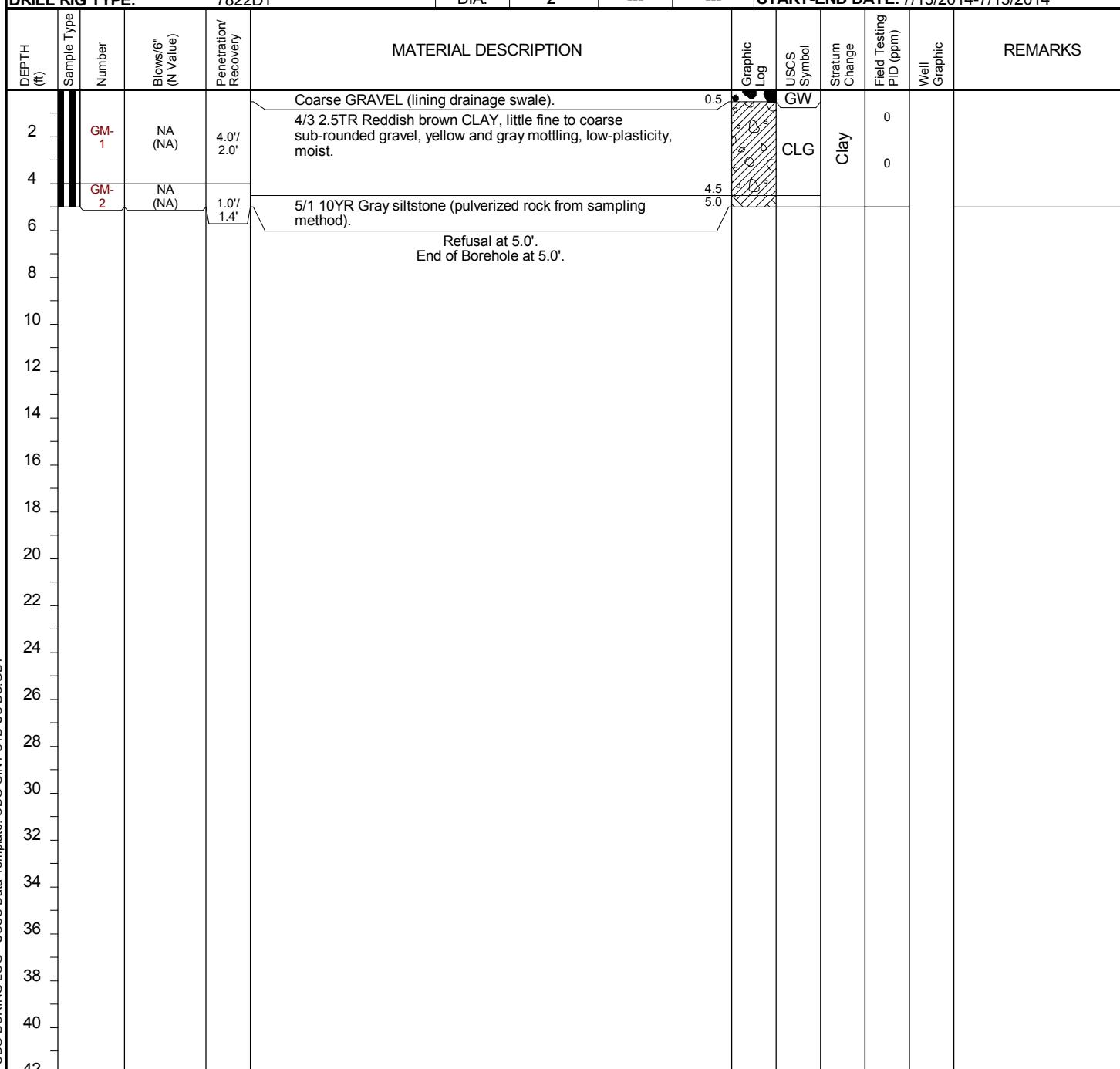
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd**DRILLER:** Jake Bradley**PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/13/2014-7/13/2014



BORING LOG

WELL NO. GP26

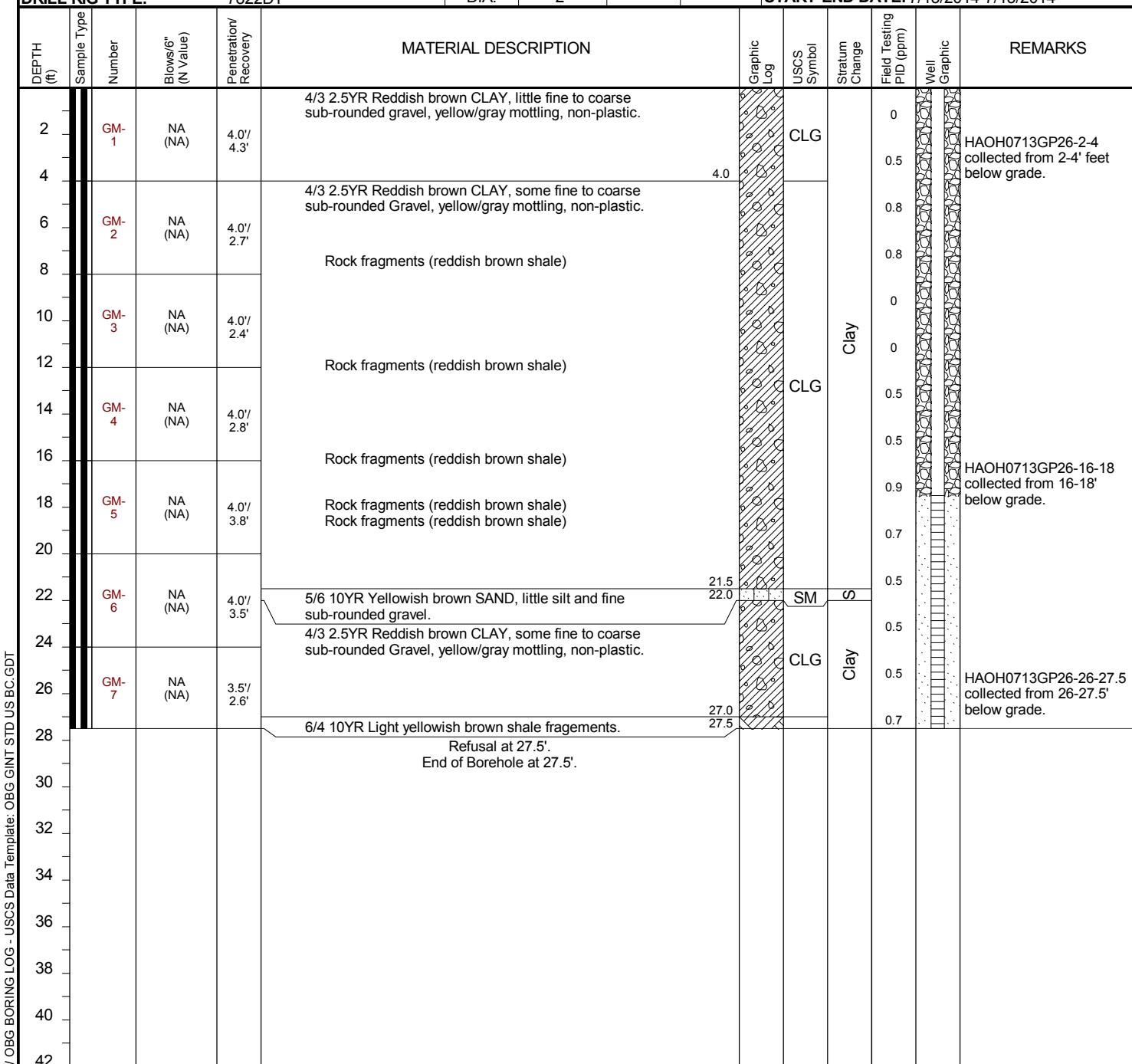
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/13/2014-7/13/2014





BORING LOG

BORING NO. GP27

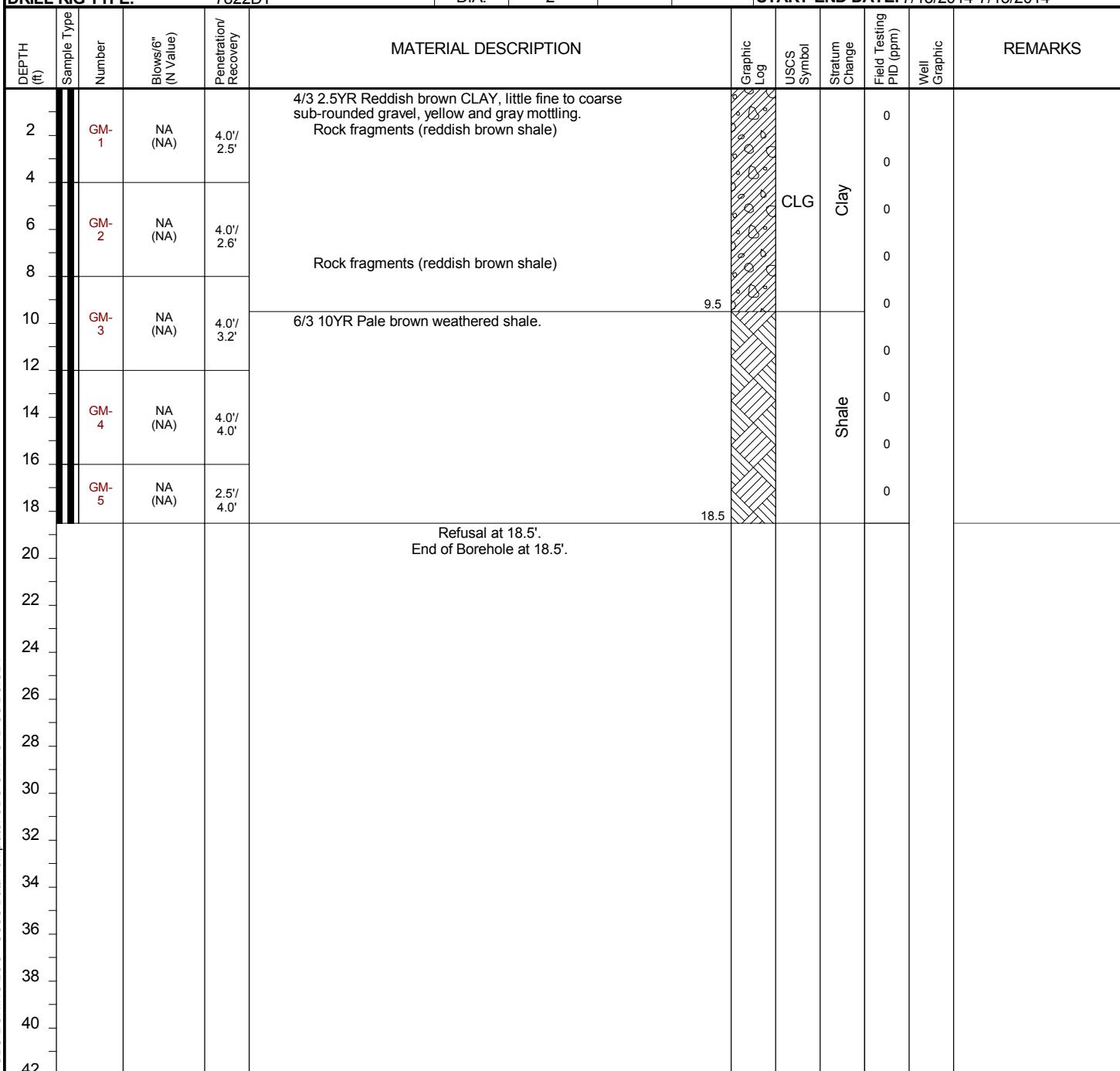
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/13/2014-7/13/2014





BORING LOG

WELL NO. GP28

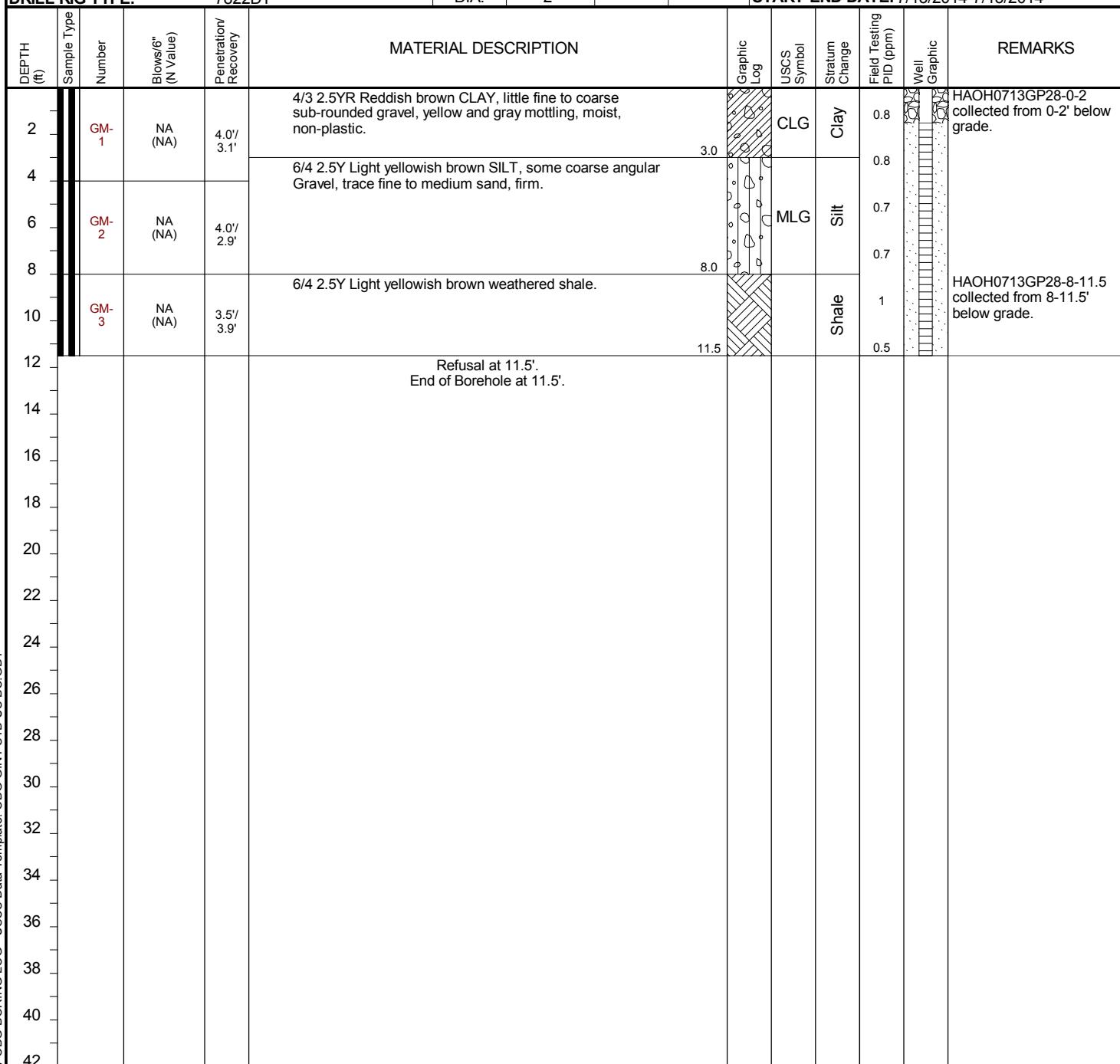
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/13/2014-7/13/2014





BORING LOG

BORING NO. GP29

PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd**DRILLER:** Jake Bradley**PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** 7822DT

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/13/2014-7/13/2014

DEPTH (ft)	Sample Type	Number	Blows/6' (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing P/D (ppm)	Well Graphic	REMARKS
2	GM-1	NA (NA)	2.0'/ 1.3'		8" Sandstone/siltstone GRAVEL (road base), slightly moist. 10" 6N GLEY weathered/fractured shale fragments, dry.	1.0 2.0	GP GP	ShGr	0.4		HAOH0713GP29-0-2 collected from 0-2' below grade.
4					Refusal at 2.0'. End of Borehole at 2.0'.						
6											
8											
10											
12											
14											
16											
18											
20											
22											
24											
26											
28											
30											
32											
34											
36											
38											
40											
42											



BORING LOG

BORING NO. GP30

PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd**DRILLER:** Jake Bradley**PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** 7822DT

	SAMPLE	CORE	CASING
TYPE	MC	---	---
DIA.	2"	---	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/13/2014-7/13/2014

DEPTH (ft)	Sample Type	Number	Blows/6' (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
2	MC-1	NA (NA)		3.0'/ 2.8'	10" Siltstone/sandstone fragments (sub-base), slightly moist. 14" 6N GLEY weathered/fractured shale fragments, dry.	1.0 3.0	GP GP	Gravel	1.4 1.4		HAOH0713GP30-0-2 collected from 0-2' below grade.
4					Refusal at 3.0'. End of Borehole at 3.0'.						
6											
8											
10											
12											
14											
16											
18											
20											
22											
24											
26											
28											
30											
32											
34											
36											
38											
40											
42											



BORING LOG

BORING NO. GP31

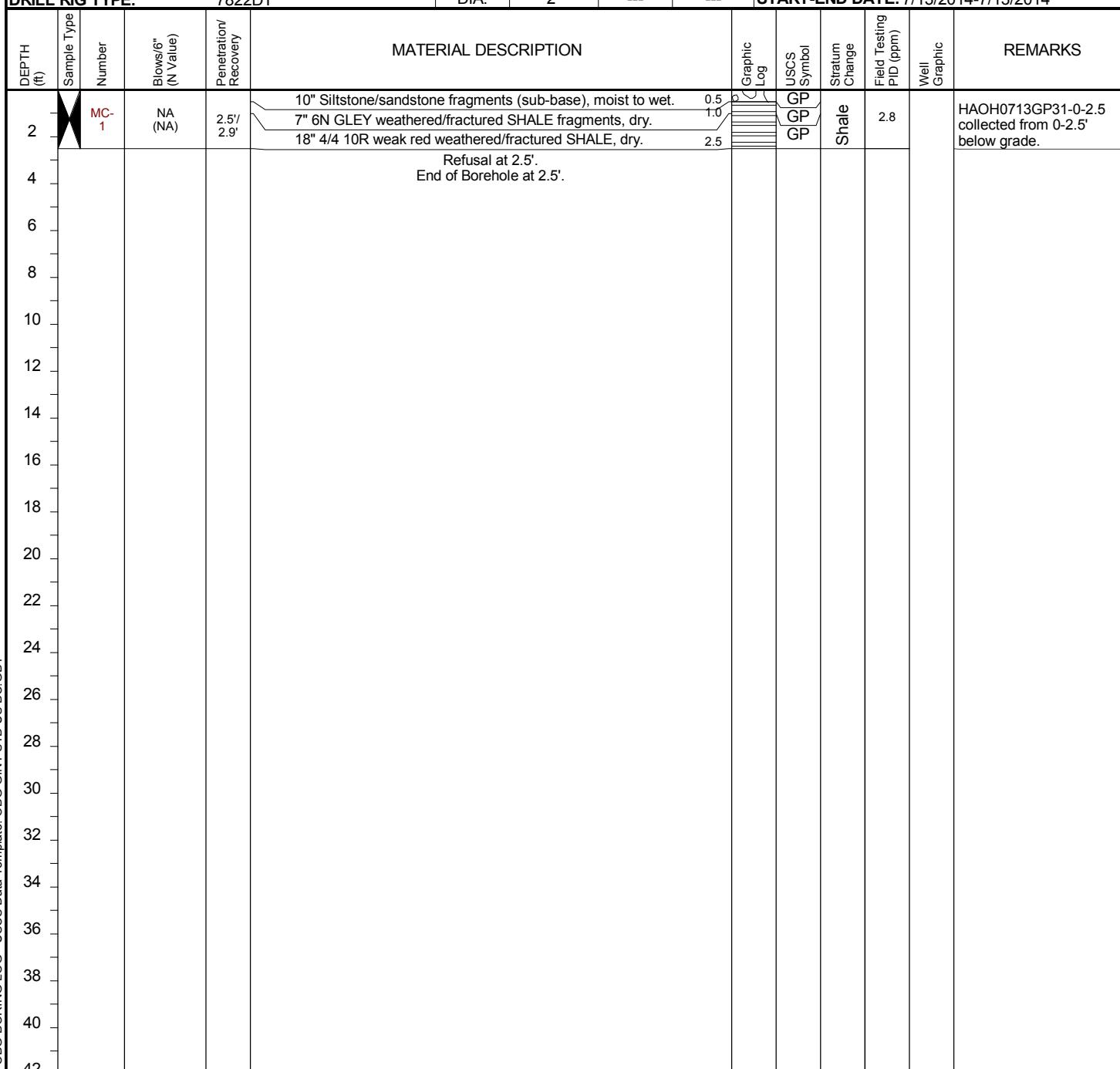
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd**DRILLER:** Jake Bradley**PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** 7822DT

	SAMPLE	CORE	CASING
TYPE	MC	---	---
DIA.	2"	---	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/13/2014-7/13/2014



BORING LOG

BORING NO. GP32

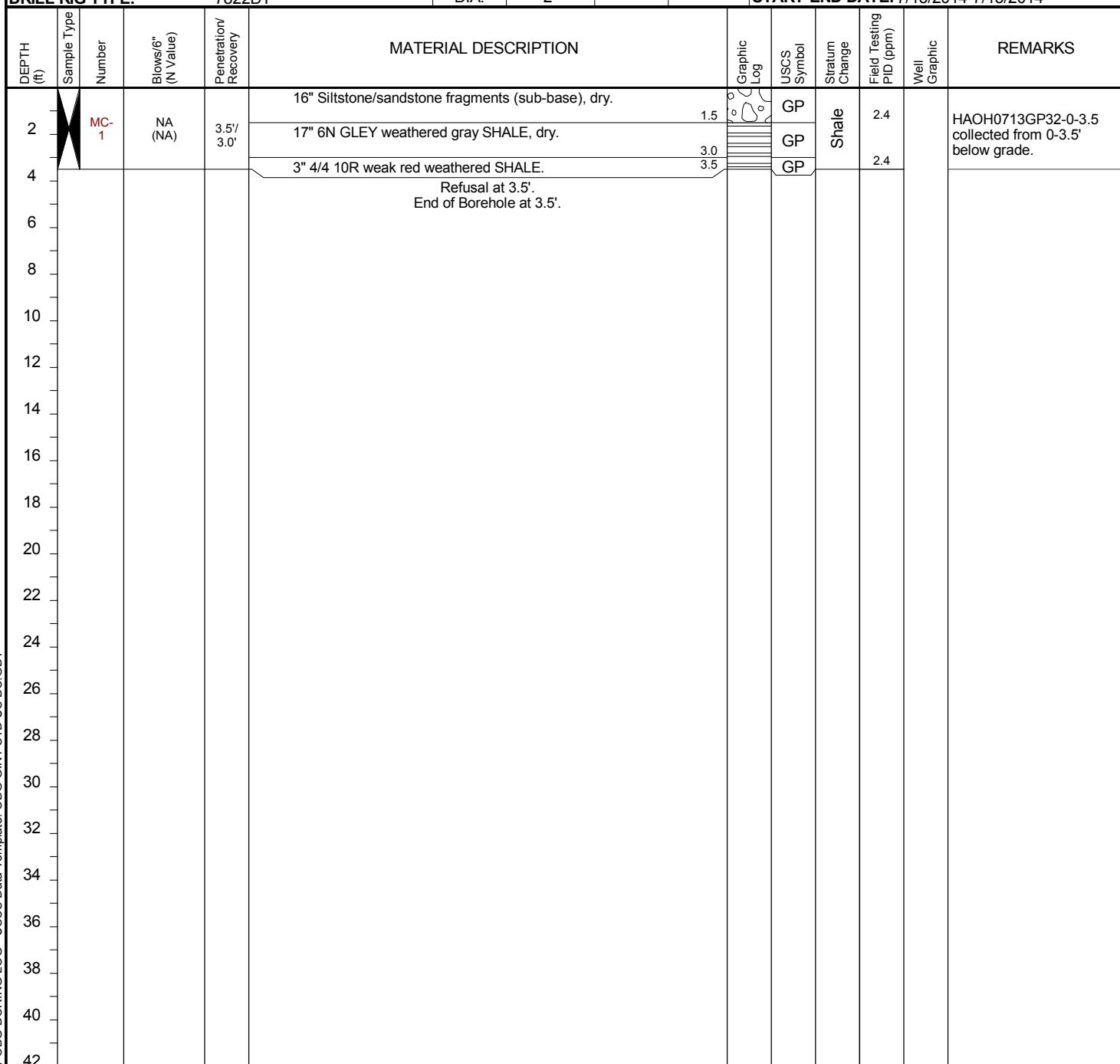
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: Enviro Core, Ltd
DRILLER: Jake Bradley
PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: 7822DT

	SAMPLE	CORE	CASING
TYPE	MC	---	---
DIA.	2"	---	---

SHEET 1 OF 1
JOB NO. 52147.007.001

COORDINATES: N E
GROUND ELEV:
HORIZ. DATUM:
VERT. DATUM:
START-END DATE: 7/13/2014-7/13/2014





BORING LOG

BORING NO. SS42

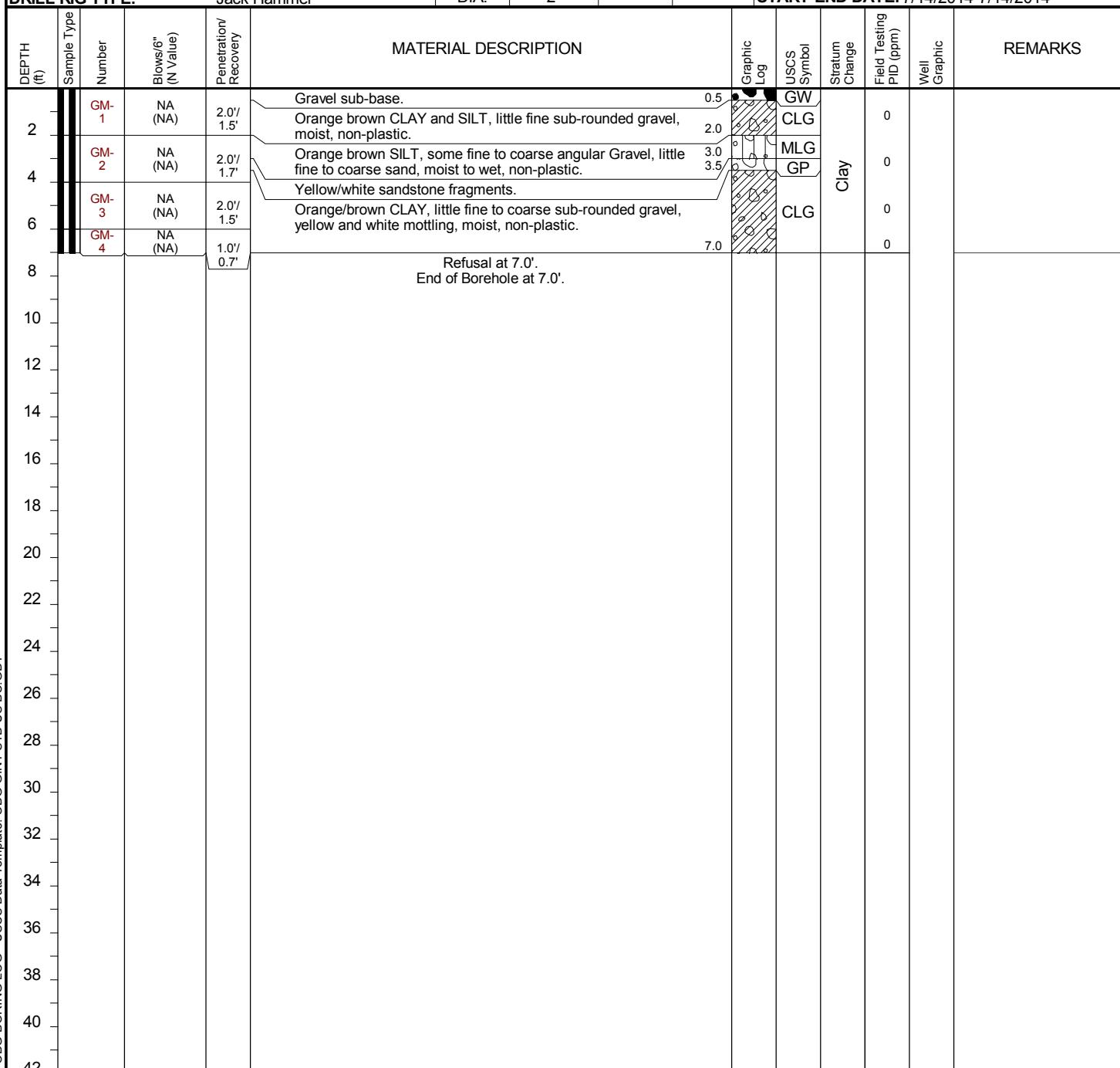
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: CTEH**DRILLER:****PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** Jack Hammer

SAMPLE	CORE	CASING
TYPE	GM	---
DIA.	2"	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/14/2014-7/14/2014

Ohio Operations Incident Bore Log



Bore ID: SS04

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.6972159	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899256	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-08
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-08
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Kristen Karnes	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS04-01		NA		(0.0, -3.0) Medium Brown Fine Silty Clay with Yellow Colors Intermixed; Very Dry/Hard; Backfill	CL			SampleID: HAOH0708SS04-0-2
3	SS04-02		NA		(-3.0, -4.0) Sandstone Intermixed; Medium Brown Fine Silty Clay with Yellow Colors Intermixed; Very Dry/Hard; Backfill		0.0		
4	SS04-03		NA		(-4.0, -8.0) Medium Brown Fine Silty Clay; Yellow Colors Intermixed; Slightly Moist; Dry at 7-7.5'		0.0		
8	SS04-04		NA				0.49		

Ohio Operations Incident

Bore Log

Bore ID: SS05

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.6973609	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899734	Datum: WGS84
Drilling Method: Impact		Core Diameter: 2"	Start Date: 2014-07-08
Drilling Equipment: Geoprobe/Jackhammer		Monitoring Well Installed: No	Stop Date: 2014-07-08
Drilling Company: CTEH			Water Table Depth: -
Drilled By: -			Bore Inspected By: Kristen Karnes

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS05-01				(0.0, -2.0) <i>No Information Available</i>			0.0	SampleID: HAOH0708SS05-0-2
	SS05-02	NA		GC	(-2.0, -4.5)	0.48	0.0		
4					(-4.5, -4.5) <i>Refusal Layer</i>				

Ohio Operations Incident Bore Log

Bore ID: SS06

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.6978764	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899315	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-09
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date:
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Kristen Karnes	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS06-01		NA		(0.0, -3.0) Medium Brown Silty Clay; Mixed Gravel; Dry	CL		0.3	SampleID:HAOH0709SS06-0-2
	SS06-02		NA		(-3.0, -4.0) Medium Brown Silty Clay; Moist			0.2	SampleID:HAOH0709SS06-2-4
4	SS06-03		NA	 	(-4.0, -4.3) Grey Black Clay; Dry (-4.3, -6.0) Yellow Brown Clay; Dry; Hard; Gravel	GC	0.03	0.6	SampleID:HAOH0709SS06-4-6
	SS06-04		NA	 	(-6.0, -7.0) Grey/Light Brown Clay; Poorly Sorted Gravel; (-7.0, -8.0) Dry; Hard; Clay		0.02	0.2	SampleID:HAOH0709SS06-6-8

Ohio Operations Incident

Bore Log

Bore ID: SS07

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.69832	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899149	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-09
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-09
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Kristen Karnes	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS07-01				(0.0, -2.0) Medium Brown Clay, Orange Color, Somewhat Moist; Medium Brown Clay; Moist at 18"; Backfill	CL		1.1	SampleID:HAOH0709SS07-0-2; Chemical Odor
	SS07-02				(-2.0, -3.5) Medium Brown with Yellow & Red Pigments; Soft Clay; Organic Material at 2.5'; Backfill	GC		1.1	SampleID:HAOH0709SS07-2-4
4	SS07-03	NA			(-3.5, -4.0) Rocky Layer; Backfill	GC			
	SS07-03				(-4.0, -4.5) Med Brown Moist Clay; Backfill	CL		4.0	SampleID:HAOH0709SS07-4-6
	SS07-04				(-4.5, -6.0) Medium Brown Sandy Clay; Some Gravel; Backfill	CL			
	SS07-04				(-6.0, -6.5) Red Brown Sandy Clay; Moist; Backfill	SC	NA		
	SS07-04				(-6.5, -7.8) Grey Brown Sandy Clay; Dry; Backfill	SC		0.3	SampleID:HAOH0709SS07-6-8
8					(-7.8, -8.0) Grey Brown Sandy Clay; Moist; Backfill	SC			

Ohio Operations Incident

Bore Log

Bore ID: SS08

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698956	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899132	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-09
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-09
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Kristen Karnes	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS08-01				(0.0, -1.5) Red Brown Clay; Moist; Organic Material Present; Backfill	GC			SampleID:HAOH0709SS08-0-2; SampleID:HAOH0709SS08-0-2DU
					(-1.5, -2.0) Thick Clay; Moist; Backfill	GC			
	SS08-02				(-2.0, -4.0) Medium Brown Clay with Small Amount of Sand; Grave; Backfill;	CL		1.0	
4	SS08-03	NA			(-4.0, -4.5) Medium Brown Clay with 1.5"; Backfill	CL			
					(-4.5, -4.7) Black Layer at 4.5';	CL			
					(-4.7, -6.0) Fine Sands; Fine Siltstone; Sandy Clay; Backfill	CL	NA	0.6	
	SS08-04				(-6.0, -7.0) Medium Brown Clay; Dry; Mixed Gravel; Backfill	CL			
8					(-7.0, -8.0) Hard Clay; Moist; backfill	CL		0.0	SampleID:HAOH0709SS08-6-8

Ohio Operations Incident

Bore Log

CTEH CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH,LLC

Bore ID: SS18

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.6975998	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899632	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-12
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: -
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS18-01		NA		(0.0, -4.0) Orange; High Plasticity (H); Hard; Moisture Absent (Dry); Backfill	Clay	0.28	0.6	SampleID=HAOH0712SS19-2-4
4	SS18-02		NA		(-4.0, -8.0) Orange; High Plasticity (H); Soft; Damp (Moist); Backfill	Clay	0.38		

Ohio Operations Incident

Bore Log

Bore ID: SS19

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.69759	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899632	Datum: WGS84
Drilling Method: Impact		Core Diameter: 2"	Start Date: 2014-07-12
Drilling Equipment: Geoprobe/Jackhammer		Monitoring Well Installed: No	Stop Date: 2014-07-12
Drilling Company: CTEH			Water Table Depth: -
Drilled By: -			Bore Inspected By: Bailey Williams

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS19-01		NA		(0.0, -2.0) Hard to soft; Moisture Absent (Dry); Slight Sand	CL	0.26		
	SS19-02		NA		(-2.0, -4.0) visible Water (Wet); Silty clay, sandstone, sandy silt	CH	0.10	1.2	SampleID:HAOH0712SS19-1-5; SampleID: HAOH0712SS19-1-5DUP
4	SS19-03		NA		(-4.0, -5.0) Visible Water (Wet); Sandy Silt with Gravel	GC	0.00	2.1	

Ohio Operations Incident Bore Log

Project #: 106393

City, ST: Hannibal, OH
County: Monroe

Latitude: 39.698132 **Elevation:** Surface
Longitude: -80.899384 **Datum:** WGS84

Drilling Method: Impact
Drilling Equipment: Geoprobe/Jackhammer
Drilling Company: CTEH
Drilled By: -

Core Diameter: 2"
Monitoring Well Installed: N
Water Table Depth: -
Bore Inspected By:

Ohio Operations Incident Bore Log

Bore ID: SS21

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698466	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899246	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-12
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-12
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS21-01	NA			(0.0, -2.0) Orange; Hard; Damp (Moist); Backfill	CH	0.21	0.8	
	SS21-02	NA			(-2.0, -4.0) Orange; Hard; Moisture Absent (Dry); Backfill	CH	0.07	1.8	SampleID=HAOH0712SS21-2-4
4	SS21-03	NA			(-4.0, -6.0) Orange; Hard; Damp (Moist); Backfill	CH	0.07	0.5	
	SS21-04	NA			(-6.0, -8.0) Soft; Damp (Moist); Backfill	CH	0.38 0.23	0.7	

Ohio Operations Incident

Bore Log

Bore ID: SS22

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.6986564	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899160	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-12
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-12
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS22-01		NA		(0.0, -2.0) Red; Strong Brown; Soft to Hard; Backfill; Chemical Odor; Silty Clay with slight Sand;	CH	0.1		
	SS22-01		NA		(-2.0, -4.0) Red; Strong Brown; Gray; Soft; Silty Clay with Poorly Sorted Gravel Back Fill;	CH	0.3	0.6	
4	SS22-01		NA		(-4.0, -5.0) Red; Strong Brown; Gray; Soft; Moist Silt Clay; Mottling	CH	0.4		
	SS22-01		NA		(-5.0, -6.0)	CH	0.14	0.6	SampleID=HAOH0712SS22-4-6
8	SS22-01		NA		(-6.0, -8.0) Red; Strong Brown; Gray;	CH	0.63	0.9	

Ohio Operations Incident

Bore Log

Bore ID: SS23

1 of 2

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698956	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899132	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-12
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-12
Drilling Company: CTEH	Water Table Depth: 2.25-2.5'	
Drilled By: -	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS23-01	NA			(0.0, -2.0) Silty Clay	CL	0.01		
	SS23-02	NA			(-2.0, -3.0) Silty Clay; waterline between 2.25-2.5'	CL	0.1		
4	SS23-03	NA			(-3.0, -4.0) silty clay with sand	SC	0.08	4.3	SampleID:HAOH0712SS23-2-4
					(-4.0, -6.0) silty clay with sand; moist; dry at bottom 0.25'	SC	0.09		
					(-6.0, -8.0) Hard impermeable clay;	Clay	0.8		

Ohio Operations Incident

Bore Log

CTEH CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH,LLC

Bore ID: SS23

2 of 2

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698956	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899132	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-12
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-12
Drilling Company: CTEH	Water Table Depth: 2.25-2.5'	
Drilled By: -	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
8	SS23-04		NA						Core split and sample lost

Ohio Operations Incident

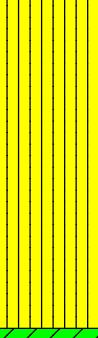
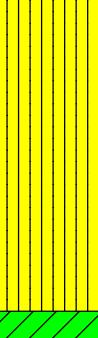
Bore Log

Bore ID: SS24

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698807	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899567	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-11
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-11
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS24-01	NA			(0.0, -2.0) Light Gray; Dark Gray; Clayey Silt with Sand (Roots Present); Hard: Moisture Absent (Dry); Backfill	ML	0.00		
	SS24-02	NA			(-2.0, -4.0) Light Gray; Brown; Silty Clay with Sand; Hard; Moisture Abesent (Dry); Gray Siltstone; Light Brown; Gray; Orange; Mottled; Backfill	CL	0.01 0.03	0	No Sample
4	SS24-03	NA			(-4.0, -6.0) Gray Sandstone; Gray: Silty Clay; Orange; Mottled; Moisture Absent (Dry); Backfill	ML	0.2 0.15	0	
	SS24-04	NA			(-6.0, -7.0) Gray; Silty Clay with Sand; Soft; Damp (Moist); Backfill	CL	0.01	0	

Ohio Operations Incident Bore Log

CTEH CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Bore ID: SS25

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698498	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899658	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-11
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-11
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Joe Johnstone	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS25-01				(0.0, -2.0) Light Brown; Gray; Silty Clay; (roots); Slight Sand; Soft to Hard; Moderately Moist; Backfill	CL	0.00	0	
	SS25-02				(-2.0, -4.0) Gray; Brown; Silty Clay; Hard; Moisture Absent (Dry); Backfill	CL	0.00 0.03	0	
4	SS25-03				(-4.0, -6.0) Gray; Brown; Clay with some Silt; Sandstone layer; Soft; Damp (Moist); Backfill	CL	0.03 0.19	0	No Sample
	SS25-04				(-6.0, -8.0) Dark Brown; Medium Brown; Silty Clay; Soft; Damp (Moist); Backfill	CL	0.08 0.00	0	

Ohio Operations Incident

Bore Log

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Bore ID: SS26

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698177	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899811	Datum: WGS84

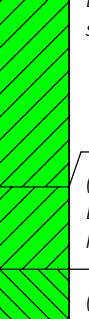
Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-11
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-11
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS26-01	NA			(0.0, -2.0) Light Brown; Gray; Silty Clay; Slight Sand; Moisture Absent (Dry); Backfill	CL	0.01		
4	SS26-02	NA			(-2.0, -4.0) Light Brown; Gray; Silty Clay; Slight Sand; Sandstone; Hard; Moisture Absent (Dry); Backfill; to Soft; Black; Brown; Clay; Damp (Moist)	ML	0.01 0.02	0	No Sample

Ohio Operations Incident Bore Log

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698044	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899879	Datum: WGS84

Drilling Method: Impact **Core Diameter:** 2" **Start Date:** 2014-07-14
Drilling Equipment: Geoprobe/Jackhammer **Monitoring Well Installed:** No **Stop Date:** 2014-07-14
Drilling Company: CTEH **Water Table Depth:** -
Drilled By: Travis Sartain **Bore Inspected By:** Kristin Karnes

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS27-01		NA		(0.0, -0.8) Light brown silty clay; dry ; soft; roots present (-0.8, -1.3) Gray silty clay with sand; (-1.3, -3.0) Hard gray clay; dry; red, brown, gray, mottled clay with sand; dry; soft	CL	0.0	0.1	
	SS27-02		NA		(-3.0, -3.3) Gray silty clay; dry; soft (-3.3, -4.0) Mottled silty clay; red, brown, gray; moist; sandy		0.02	0.17	
4	SS27-03		NA		(-4.0, -5.5) Brown; silty clay with siltstone; moist; soft (-5.5, -6.0) Light brown, red, dark brown, mottled hard silty clay		0.18	0.1	
	SS27-04		NA		(-6.0, -7.0) Brown, red, mottled silty clay, moist followed by 2" of hard light brown clay (-7.0, -8.0) Red, brown, orange mottled silty clay, moist, hard		0.34	0.12	0
8							0.51		

Ohio Operations Incident

Bore Log

Bore ID: SS28

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.697731	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.8999941	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-14
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-14
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Travis Sartain	Bore Inspected By: Kristin Karnes	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS28-01	NA			(0.0, -2.0) Light grey to brown silt clay with slight sand; hard; dry; roots; backfill	CL	0.01		
	SS28-02	NA			(-2.0, -2.3) Light brown silty clay with sand; soft; dry; backfill		0.04	0	
	SS28-03	NA			(-2.3, -3.5) Light brown silty clay with sand; soft; more moisture; backfill		0.03		
4	SS28-04	NA			(-3.5, -4.0) Grey sandy clay; dry; soft; backfill		0.02	0	No samples collected
					(-4.0, -4.8) Red brown silty clay with sand; moist; fat; backfill				
					(-4.8, -5.8) Red brown, orange & grey clay with sand; moist; fat; mottled; backfill		0.70		
					(-5.8, -6.0) Dark grey sandy clay, dry; backfill				
					(-6.0, -7.8) Red brown, orange & grey mottled silty clay; slight sand; moist; thick; backfill		0.31	0	
8					(-7.8, -8.0) Light brown sand clay; hard; dry; backfill		0.27		

Ohio Operations Incident Bore Log

Project #: 106393

City, ST: Hannibal, OH

Client: StatOil

County: Monroe

Latitude: 39.697777

Elevation: Surface

Longitude: -80.900360

Datum: WGS84

Drilling Method: Impact

Drilling Equipment: Geoprobe/Jackhammer

Drilling Company: CTEH

Drilled By: Travis Sartain

Core Diameter: 2"

Monitoring Well Installed: No

Water Table Depth: -

Bore Inspected By: Kristin Karnes

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS29-01		NA		(0.0, -1.5) Red brown; Fine Clay; Hard; Dry (-1.5, -2.0) Red brown; Grey; Fine Clay; Hard; Moist; backfill	CL	0.01		
	SS29-02		NA		(-2.0, -2.8) Red Brown fine sandy clay with pieces of woodchips; slightly moist; (-2.8, -3.0) Grey fine silty clay; dry		0.05	0	
4	SS29-03		NA		(-3.0, -4.0) Red brown fine sandy clay with grey pigments; backfill (-4.0, -4.5) Red brown silty clay; slightly moist;		0.03	0	
	SS29-04		NA		(-4.5, -5.0) Grey sandstone followed by moist red brown sandy clay (-5.0, -6.0) Hard sandy clay; moist; backfill (-6.0, -6.5) Light brown with red sandy clay; loose; dry		0.2	0.08	0
					(-6.5, -6.8) Grey sandy clay; hard; dry (-6.8, -8.0) Red, brown, grey & orange mottled clay; hard; moist; backfill		0.04		

Ohio Operations Incident

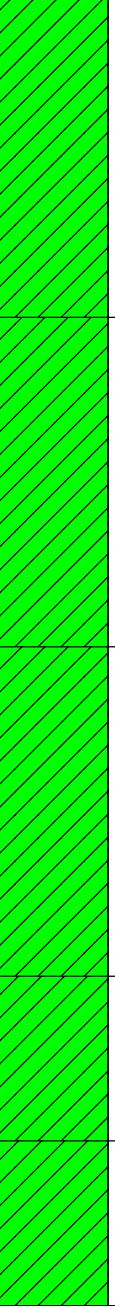
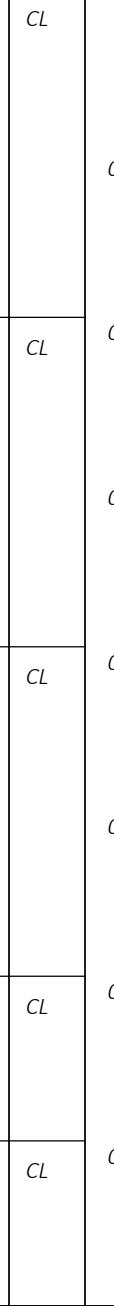
Bore Log

Bore ID: SS30

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698109	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.900269	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-14
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-14
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Travis Sartain	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS30-01	NA			(0.0, -2.0) Red; Light Brown; Grey; Silty Clay with Sand; Hard; Brittle; Dry	CL	0.02		
	SS30-02	NA			(-2.0, -4.0) Red; Light Brown; Grey; Silty Clay with Sand; Hard; Brittle; Moist	CL	0.00 0.03	0	
4	SS30-03	NA			(-4.0, -6.0) Red; Brown; Black; Grey; Sandy Clay; Hard; Brittle; Moist	CL	0.06 0.04	0	
	SS30-04	NA			(-6.0, -7.0) Red; Brown; Black; Grey; Sandy Clay; Hard; Brittle; Dry	CL	0.14	0	
8					(-7.0, -8.0) Red; Brown; Black; Grey; Sandy Clay; Soft; Moist	CL	0.31		

Ohio Operations Incident

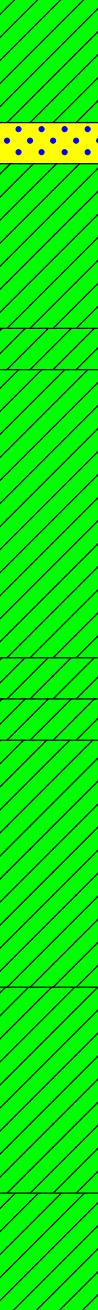
Bore Log

Bore ID: SS31

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698330	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.900171	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 7/10/2014
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 7/10/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Travis Sartain	Bore Inspected By: Kristen Karnes	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS31-01	NA			(0.0, -0.8) Medium Brown; Soft; Dry; Some Sand; Roots (-0.8, -1.0) Red Brown Clay mixed in (-1.0, -2.0) Red; Orange Brown Mottling; Dry	CL Sandstone CL	0.06 mS		
	SS31-02	NA			(-2.0, -2.3) Gray; Hard; Dry (-2.3, -4.0) Red Brown; Mottling; Moist; Soft	CL CL	0.04 mS 0.08 mS	0.00 ppm	
4	SS31-03	NA			(-4.0, -4.3) Light Brown; Some Gray; Some Sand; Dry (-4.3, -4.5) Gray; Hard; Dry: (-4.5, -6.0) Brown Gray; Some Sand; Hard; Dry	CL CL CL	0.08 mS 0.12 mS 0.34 mS	0.00 ppm 0.00 ppm 0.00 ppm	
8	SS31-04	NA			(-6.0, -7.3) Medium Brown; Some Sand; Hard; Moist (-7.3, -8.0) Dark Brown; Hard; Dry	CL	0.18 mS		

Ohio Operations Incident

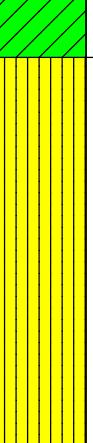
Bore Log

Bore ID: SS32

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698563	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.900078	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 7/10/2014
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 7/10/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Travis Sartain	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS32-01	NA			(0.0, -1.0) Dark Brown; Gray; Some Sand; Roots (-1.0, -1.5) Gray	CL	0.02		
	SS32-02	NA			(-1.5, -3.0) Medium Brown; Gray; Some Sand; Moist; Hard	CL	0.07	0.00	
4	SS32-03	NA			(-3.0, -3.5) Brown Gray; Orange; Mottling; Some Sand; Moist; Hard (-3.5, -6.0) Dark Brown; Moist; probe would not penetrate past 6.5' but would not recover sample beyond 6'	CL ML	0.32 0.10 0.12	0.00	

Ohio Operations Incident Bore Log



Bore ID: SS33

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698498	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.899658	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-10
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-10
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Kristen Karnes	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS33-01	NA			(0.0, -2.0) Red; Brown; Silty Clay; Roots; Slight Sand; Soft; Moist; Backfill	CL	0.08		
	SS33-02	NA			(-2.0, -4.0) Red; Brown; Clay with Sand; Silty Clay with Sand; Dark Brown; Soft; Moist; Backfill	CL	0.27	0	
4	SS33-03	NA			(-4.0, -6.0) Orange; Brown; Silt Clay with Slight Sand; Mottled; Hard; Damp (Moist); Backfill	CL	0.15	0	No Sample
	SS33-04	NA			(-6.0, -8.0) Orange; Brown; Silt Clay with Slight Sand; Mottled; Hard; Damp (Moist); Backfill	CL	0.10	0	
8							0.10		

Ohio Operations Incident

Bore Log

Bore ID: SS34

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698029	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.898201	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-12
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-12
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Peter Washburn	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0-	SS34-01		NA		(0.0, -1.0) Red; Pale Brown; Gray; Light Gray; Hard; Moisture Absent (Dry); Silty clay, then sandstone and siltstone, then hard red clay;	CL			No Samples; Could Not Penetrate Greater than 1'

Ohio Operations Incident

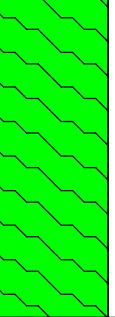
Bore Log

Bore ID: SS35

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698013	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.897957	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-12
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-12
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: -	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS35-01		NA		(0.0, -2.0) Red; Strong Brown; Pale Brown; Hard; Visible Water (Wet); Wet Silty Clay then Dry Mottled Silty Clay;	CH	0.08	0	Could Not Penetrate Greater than 2'; SampleID=HAOH0713SS35-0-2

Ohio Operations Incident

Bore Log

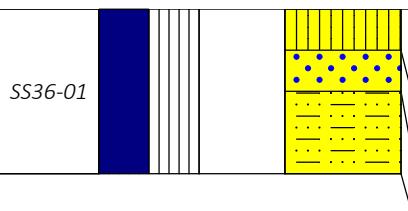
CTEH CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH,LLC

Bore ID: SS36

1 of 1

Project #: 106393	City, ST: Hannibal_OH	Latitude: 39.697929	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.898026	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/21/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/21/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Travis Sartain	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS36-01				(0.0, -0.3) Light Brown Silty Clay	ML	0.0	0.0	
					(-0.3, -0.5)				
					(-0.5, -1.0)				

Ohio Operations Incident

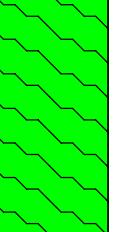
Bore Log

Bore ID: SS37

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.697525	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.89772	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/21/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/21/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Travis Sartain	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0-	SS37-01				(0.0, -1.5) Red, pale brown; soft; moisture absent (Dry); silt clay with siltstone	CH	0.05	0.0	

Ohio Operations Incident

Bore Log

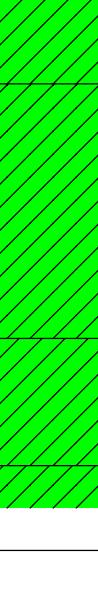
CTEH CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH,LLC

Bore ID: SS38

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.697338	Elevation: Surface
Client: StatOil	County: Monroe	Longitude: -80.897812	Datum: WGS84

Drilling Method: Impact	Core Diameter: 2"	Start Date: 2014-07-13
Drilling Equipment: Geoprobe/Jackhammer	Monitoring Well Installed: No	Stop Date: 2014-07-13
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Travis Sartain	Bore Inspected By: Bailey Williams	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS38-01	NA			(0.0, -0.5) Light brown silty clay; dry; soft; roots; distinct upper horizon (-0.5, -2.0) Red, brown, orange mottled silty clay; dry; soft	CL	0.0	0	SampleID: HAOH0713SS38-0-2
	SS38-02	NA			(-2.0, -2.8) Brown silty clay; soft; dry (-2.8, -3.0) Brown, red, orange mottled silty clay; moist; hard Note: could not drill deeper; impermeable layer	CL	0.02 0.21	0 0	



BORING LOG

BORING NO. SS42

PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

SHEET 1 OF 1

JOB NO. 52147.007.001

DRILLING CONTRACTOR:

DRILLER:

PURPOSE: Soil Investigation
DRILLING METHOD: Direct Push
DRILL RIG TYPE: Jack Hammer

	SAMPLE	CORE	CASING
TYPE	GM	---	---
DIA.	2"	---	---

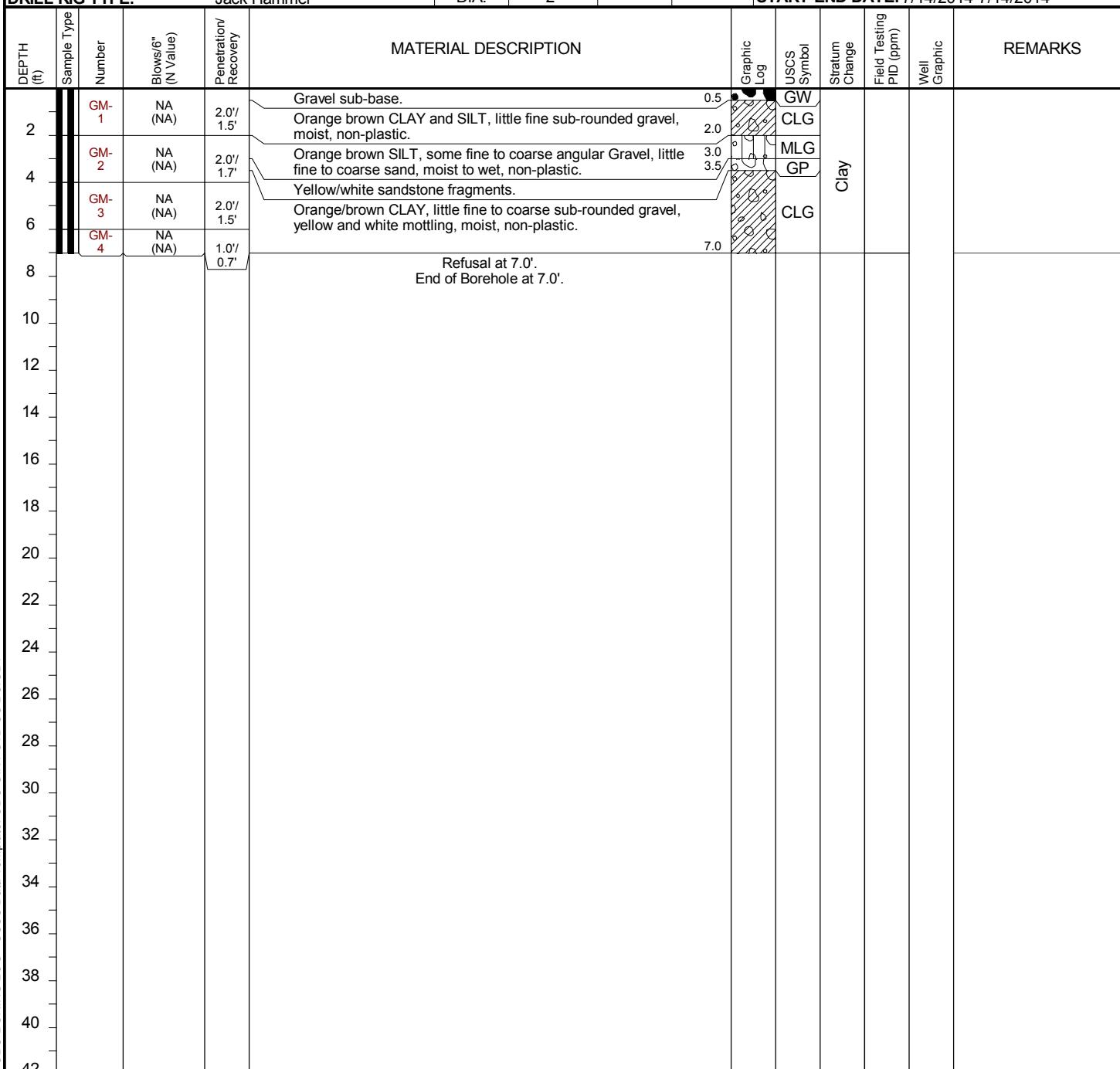
COORDINATES: N E

GROUND ELEV:

HORIZ. DATUM:

VERT. DATUM:

START-END DATE: 7/14/2014-7/14/2014





BORING LOG

BORING NO. SS43

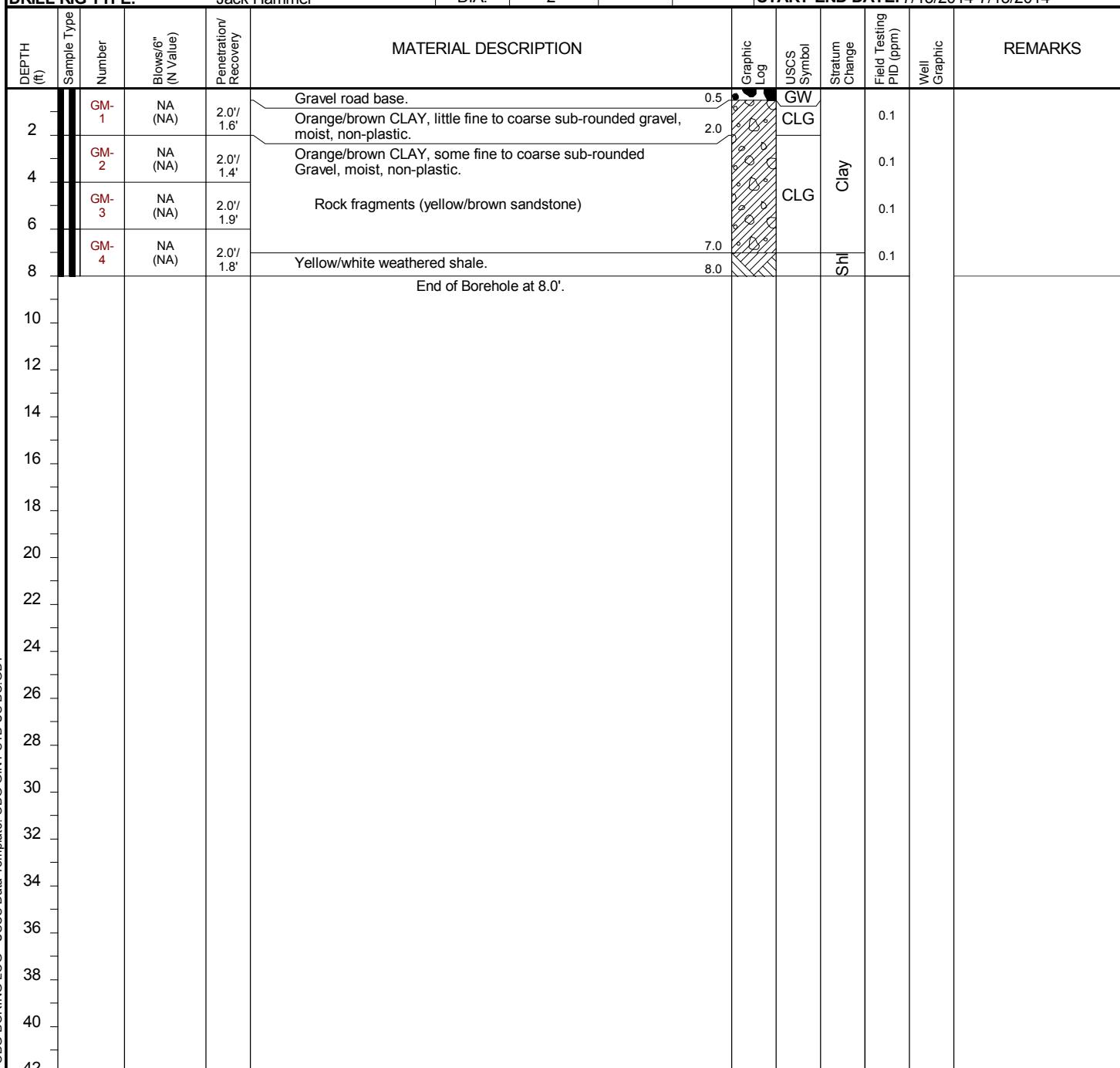
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: CTEH**DRILLER:****PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** Jack Hammer

SAMPLE	CORE	CASING
TYPE	GM	---
DIA.	2"	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/13/2014-7/13/2014



O'BRIEN & GERE

BORING LOG

BORING NO. SS44

PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: CTEH

DRII I FR

PURPOSE: Soil Investigation

DRILLING METHOD:

DRILLING METHOD: Direct Push
DRILL BIG TYPE: Jack Hammer

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES:

GROUND ELEV:

HORIZ. DATUM:

VERT. DATUM:

START-END DATE: 7/13/2014-7/13/2014

PURPOSE: Soil Investigation				SAMPLE	CORE	CASING	HORIZ. DATUM:					
DRILLING METHOD: Direct Push				TYPE	GM	---	VERT. DATUM:					
DRILL RIG TYPE: Jack Hammer				DIA.	2"	---	START-END DATE: 7/13/2014-7/13/2014					
DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION			Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
2	GM-1	NA (NA)	2.0'/ 1.0'	Light gray GRAVEL, some fine to coarse Sand				GPS	Gravel	0.1	1.1	
3.0	GM-2	NA (NA)	1.0'/ 0.2'	Organic/sulfur odor, wet. Refusal at 3.0'. End of Borehole at 3.0'.								
4												
6												
8												
10												
12												
14												
16												
18												
20												
22												
24												
26												
28												
30												
32												
34												
36												
38												
40												
42												

Report Name: NEW OBG BORING LOG - USCS Data Template: OBG GINT STD US BC.GDT



BORING LOG

BORING NO. SS45

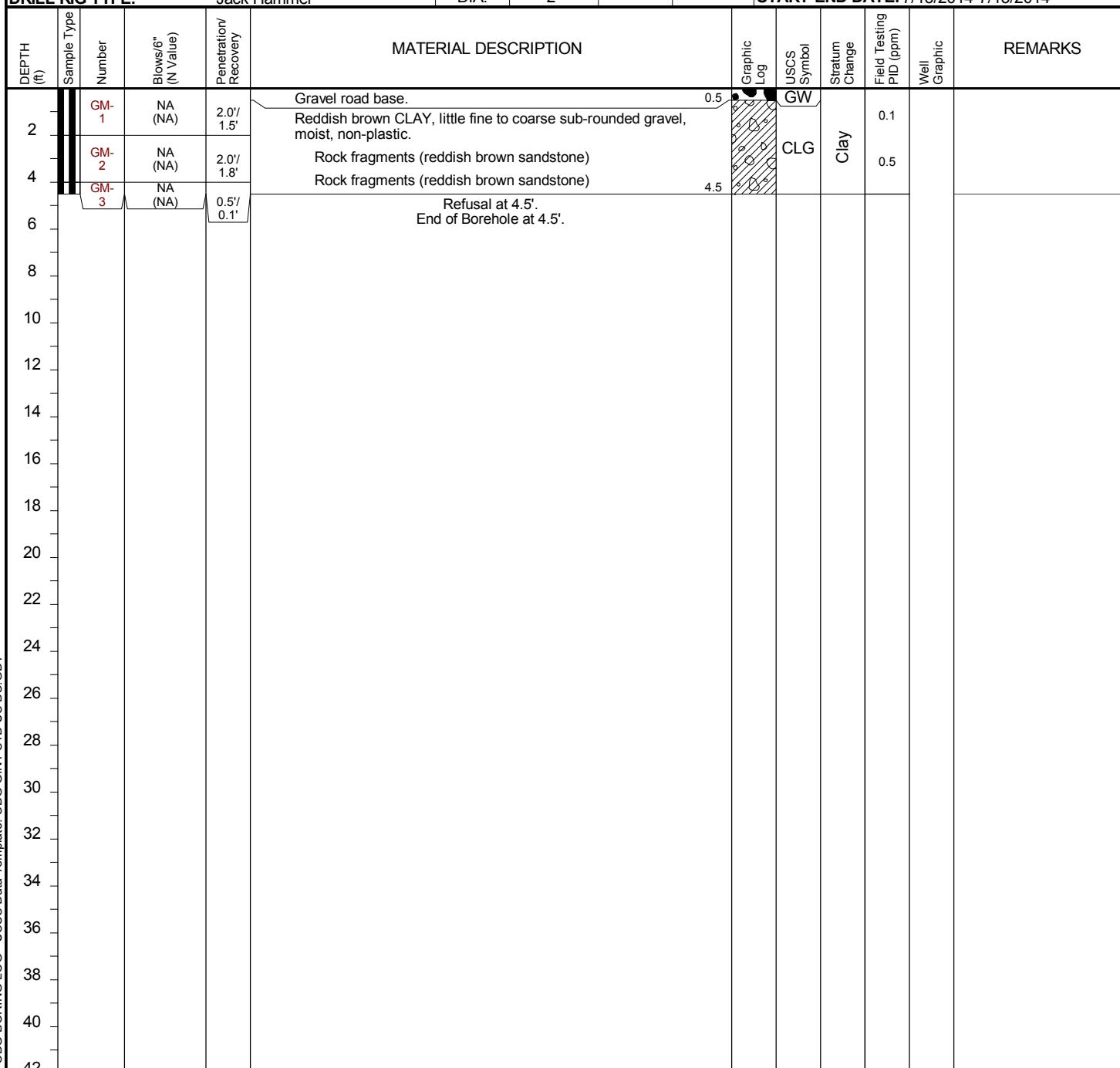
PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: CTEH**DRILLER:****PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** Jack Hammer

SAMPLE	CORE	CASING
TYPE	GM	---
DIA.	2"	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/13/2014-7/13/2014



BORING LOG

BORING NO. SS46

PROJECT: Statoil
CLIENT: CTEH
INSPECTOR: Chris Del Monaco

DRILLING CONTRACTOR: CTEH**DRILLER:****PURPOSE:** Soil Investigation**DRILLING METHOD:** Direct Push**DRILL RIG TYPE:** Jack Hammer

SAMPLE	CORE	CASING
TYPE	GM	---
DIA.	2"	---

SHEET 1 OF 1

JOB NO. 52147.007.001

COORDINATES: N E**GROUND ELEV:****HORIZ. DATUM:****VERT. DATUM:****START-END DATE:** 7/13/2014-7/13/2014

DEPTH (ft)	Sample Type	Number	Blows/6' (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
0	■	GM-1	NA (NA)	0.5'/ 0.5'	Light brown to white fine to coarse angular GRAVEL, some fine to coarse Sand, trace silt. Refusal at 0.5'. End of Borehole at 0.5'.	0	GPS		0		
2											
4											
6											
8											
10											
12											
14											
16											
18											
20											
22											
24											
26											
28											
30											
32											
34											
36											
38											
40											
42											

Ohio Operations Incident

Bore Log

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AND ENVIRONMENTAL HEALTH,LLC

Bore ID: SS49

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.697613	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.899216	Datum: WGS84
Drilling Method: Hand Drilling		Core Diameter: 2"	Start Date: 7/21/2014
Drilling Equipment: Jackhammer Geoprobe		Monitoring Well Installed: No	Stop Date: 7/21/2014
Drilling Company: CTEH			Water Table Depth: -
Drilled By: Sam Head			Bore Inspected By: -

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS49-01				(0.0, -0.5) Gray brown clay; moist; lime present; firm (-0.5, -1.0) Gray limestone (-1.0, -2.0) Gray clay; limestone intermixed; moist; crushed lime present (-2.0, -2.2) Limestone layer (-2.2, -3.5) Red-brown clay; moderately moist; firm; moist (-3.5, -4.0) Sandy clay; dry; sandstone present	CL	0.01		Sample: HAOH0721SS49-0-2
4	SS49-02				Fill material	CL	0.43		Sample: HAOH0721SS49-2-4
							0.37		
							0.02		

Ohio Operations Incident

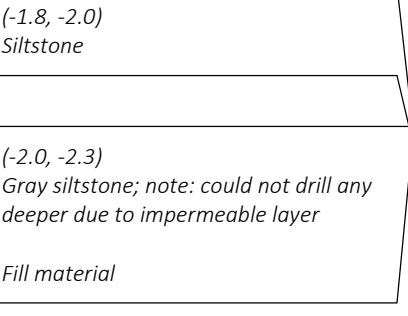
Bore Log

Bore ID: SS56

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: -	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/18/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/18/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Peter Washburn	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS56-01				(0.0, -1.5) Light brown silty clay, roots present, rocks present, some sand	CL	0.2		Sample: HAOH0718SS56-0-2
4	SS56-02				(-1.8, -2.0) Siltstone		0.1	0.4	(-2.0, -2.3) Gray siltstone; note: could not drill any deeper due to impermeable layer Fill material

Ohio Operations Incident

Bore Log

Bore ID: SS57

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698360	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.898422	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/17/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/17/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Joe Johnstone	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS57-01				(0.0, -1.0) Gravely clay; dark brown; crumbly; dry (-1.0, -1.3) Sandstone rock (-1.3, -2.0) Same as 0 - 1'	CL	0.08		Sample: HAOH0717SS57-0-2
	SS57-02				(-2.0, -4.0) Dark red clay mottled with tan sand; few sandstone gravel; no plasticity; moist	CL	0.15 0.23	0.0	
4	SS57-03				(-4.0, -6.0) Same as above; fill material	CL	0.31 0.17 0.21	0.0	Sample: HAOH0718SS57-4-6

Ohio Operations Incident

Bore Log

Bore ID: SS58

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698486	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.898460	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/17/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/17/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Tanner Agee	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS58-01				(0.0, -1.5) Medium brown silty clay; roots present; some sand; sandstone layer (~1" thick) at 1.5'; dry	CL	0.0		Sample: HAOH0717SS58-0-2
					(-1.5, -2.0) Medium brown silty clay; dry; mottling	CL	0.11	0.3	
	SS58-02				(-2.0, -2.5) Med-brown silty clay; slightly moist; firm	CL	0.27		
					(-2.5, -2.8) Light brown clay; hard; dry	CL			
					(-2.8, -4.0) Red-brown clay; moderately moist; moderately firm	CL			
4	SS58-03				(-4.0, -4.7) Same as 2.8 - 4'	CL	0.03	0.4	
					(-4.7, -6.0) Gray brown silty clay; moderately moist; soft; rocks present	CL	0.03		
	SS58-04				(-6.0, -8.0) gray-brown clay; moist; gravel present; firm; some red clay; fill material	CL	0.03	0.3	
8							0.14		Sample: HAOH0717SS58-6-8
							0.13	0.2	

Ohio Operations Incident

Bore Log

Bore ID: SS59

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698673	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.898506	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/17/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/17/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Peter Washburn	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS59-01				(0.0, -0.3) Light brown silty clay; roots; dry (-0.3, -1.7) Red brown clay; firm; dry (-1.7, -2.0) Gray brown fine grained sandstone (-2.0, -2.5) Light brown silty clay; some sand; rocks present (-2.5, -4.0) Red brown clay; moist; some mottling; rock present (sub angular)	CL CL	0.02		Sample: HAOH0717SS59-0-2
	SS59-02				(-0.3, -1.7) Red brown silty clay; roots; dry (-1.7, -2.0) Light brown silty clay; some sand; rocks present (-2.0, -2.5) Red brown clay; moist; some mottling; rock present (sub angular) (-2.5, -4.0) Same as 2.5 - 4'	CL CL	0.01	0.3	
4	SS59-03				(-4.0, -5.5) Same as 2.5 - 4' (-5.5, -6.0) Red brown silty clay; moist; rocks present; some mottling	CL	0.51	0.2	
	SS59-04				(-6.0, -6.5) Same as 5.5 - 6' (-6.5, -7.0) Light brown silty clay (-7.0, -7.5) Siltstone between (-7.5, -8.0) Dry; loosely Packed	CL CL CL	0.17 0.64 0.36	0.2	Sample: HAOH0717SS59-6-8
8					Fill material		0.02	0.2	

PROJECT NAME

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Bore Log

Bore ID: SS60

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698868	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.898521	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/17/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/17/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Peter Washburn	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS60-1				(0.0, -0.2) light brown silty clay; dry; crumbly; roots (-0.2, -1.5) Clay with gravel; tanish-red; no plasticity; tightly packed	CL CL	0.01		Sample: HAOH0717SS60-0-2
	SS60-2				(-1.5, -2.0) Sandy clay; dark brown; crumbly (-2.0, -2.2) Sandy clay; dark brown; crumbly (-2.2, -2.5) Sandstone rock (-2.5, -2.7) Clay with sandstone rock; core barrel could not penetrate beyond 3' of fill material	CL CL CL CL	0.02 0.23 0.15	0.2	

Ohio Operations Incident

Bore Log

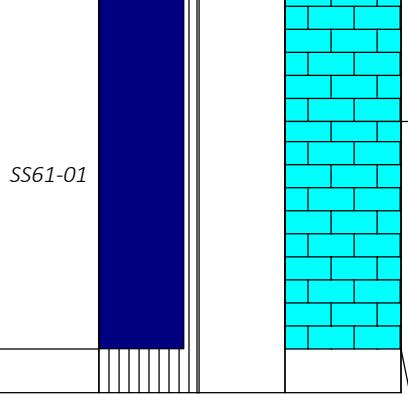
CTEH CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH,LLC

Bore ID: SS61

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.697849	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.898766	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/21/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/21/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Sam Head	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS61-01				<p>(0.0, -0.7) Limestone; layers of crushed rock</p> <p>(-0.7, -2.0) Limestone with occasional layers of brown clay; moist; geoprobe would not penetrate below 2'</p> <p>Fill material</p>		0.04	0.00	Sample: HAOH0721SS61-0-2

Ohio Operations Incident

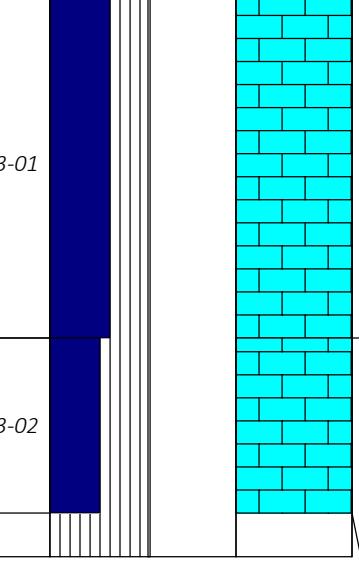
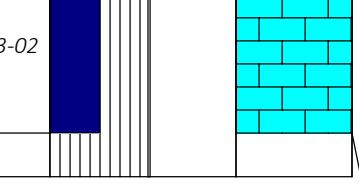
Bore Log

Bore ID: SS62

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.697624	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.898887	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/21/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/21/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Sam Head	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS63-01				(0.0, -2.0) Limestone with layers of clay; very dry		0.04		Sample: HAOH0721SS62-0-2
	SS63-02				(-2.0, -3.0) Gray limestone with layers of clay; geoprobe could not penetrate past 3' depth Fill Material		0.07		Sample: HAOH0721SS62-2-4

Ohio Operations Incident

Bore Log

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Bore ID: SS63

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.698036	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.899278	Datum: WGS84

Drilling Method: Hand Drilling	Core Diameter: 2"	Start Date: 7/21/2014
Drilling Equipment: Jackhammer Geoprobe	Monitoring Well Installed: No	Stop Date: 7/21/2014
Drilling Company: CTEH	Water Table Depth: -	
Drilled By: Sam Head	Bore Inspected By: -	

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS63-01				(0.0, -0.5) Medium Brown clayey silt; roots present; dry; powdery (-0.5, -2.0) gray-brown silty clay; rocks interbedded (sandstone and limestone); dry; some sand	ML CL	0.00		Sample: HAOH0712SS63-0-2
4	SS63-02				(-2.0, -4.0) gray-brown silty clay; moderately moist; slightly plastic; hard clay layer at 3.6 - 3.8'	CL	0.00 0.05		Sample: HAOH0712SS63-2-4
				<i>Fill Material</i>					

Ohio Operations Incident

Bore Log

Bore ID: SS64

1 of 1

Project #: 106393	City, ST: Hannibal, OH	Latitude: 39.697243	Elevation: Surface
Client: Statoil	County: Monroe	Longitude: -80.899483	Datum: WGS84
Drilling Method: Hand Drilling		Core Diameter: 2"	Start Date: 7/21/2014
Drilling Equipment: Jackhammer Geoprobe		Monitoring Well Installed: No	Stop Date: 7/21/2014
Drilling Company: CTEH		Water Table Depth: -	Bore Inspected By: -
Drilled By: Sam Head			

Depth (ft)	Bore Segment	% Recovery	Blows/6" (N Value)	Graphic Log	Material Description	USCS Symbol	Conductivity (mS)	Field Testing PID (ppm)	Additional Comments
0	SS64-01				(0.0, -1.7) Medium Brown clay; no mottling; moderately moist; low plasticity	CL			Sample: HAOH0721SS64-0-2
					(-1.7, -2.0) Dark brown clay; hard; high plasticity	CL	0.32		
	SS64-02				(-2.0, -3.2) Medium brown clay; low plasticity; moderately moist; no mottling	CL	0.23		Sample: HAOH0721SS64-2-4
4					(-3.2, -4.0) Gray brown clay; high plasticity; no mottling	CL			
					Fill material				

APPENDIX E

Whole Effluent Toxicity Testing (WET)

Proposal and Scope

American Aquatic Testing, Inc. – 890 North Graham St. – Allentown, PA 18109

Moody and Associates – November 20, 2014
Whole Effluent Acute Toxicity Testing - Whole sediment Toxicity Testing

Analysis/Method ¹	Matrix	# of samples	Sample Unit Cost	Total Cost
<u>ENDPOINT 1</u> Assessment endpoint aquatic community, <i>Ceriodaphnia dubia</i> 48-hour definitive LC50 acute toxicity study	Water, pre-treatment and post treatment	1	\$750.00	\$750.00
<u>ENDPOINT 2</u> Assessment endpoint aquatic community, <i>Pimephales promelas</i> 96-hour definitive LC50 acute toxicity study	Water, pre-treatment and post treatment	1	\$900.00	\$900.00
<u>ENDPOINT 3</u> Assessment endpoint benthic community, <i>Chironomus dilutus</i> 10-day survival & growth study; Endpoints – average % survival and growth by mean ash-free-dry-weight	Sediment	3	\$495.00	\$1,485.00
<u>ENDPOINT 4</u> Assessment endpoint aquatic community, <i>Hyalella azteca</i> 10-day survival & growth study; Endpoints – average % survival and growth by mean dry weight	Sediment	3	\$525.00	\$1,575.00
All test procedures will be conducted according to internal SOP's developed using: <ul style="list-style-type: none">• Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition, EPA 821-R-02-013• ASTM E1706-05e1• Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates, 2nd Edition (USEPA, 2000), USEPA 600/R-99/064	Total Cost:			\$4,710.00
1. Test acceptability: AAT, Inc. will guarantee a minimum performance for control treatments. Control survival failure that invalidates any data set and requires retesting will be the responsibility of AAT, Inc. using existing samples.				
Project Deliverables <ul style="list-style-type: none">- Narrative report documenting conduct of testing and summary of statistical results produced in adherence to above referenced documents. Report will include all raw data sheets and statistical output.- Reference toxicant results.- QA/QC results will be incorporated into narrative report.				
<ul style="list-style-type: none">- Proposal valid for sample receipt through June 30, 2015, provided contract is awarded before December 31, 2014.- AAT will not honor this proposal and will submit a new proposal if the number of samples is reduced by more than 10% from estimate, or if endpoints are changed and/or amended.- Proposal assumes four week holding time of sediment samples beginning on delivery date of last sample to AAT.- Prices include sieving samples.- Prices include disposal costs.- Sample size must be minimum 4L of fine grained material. Larger grain size samples will require larger volume to be collected.- AAT will provide local, natural control sediment and laboratory grade control water for all exposures.- Water quality parameters included are: pH, dissolved oxygen, and temperature measured daily; hardness, alkalinity, conductivity, overlying water ammonia measured at the beginning and end of exposures.- Statistical analysis of data set for ANOVA limited to 10 samples per comparison.- Additional endpoints will incur additional charges.- Removal of endpoints will reduce charges.- Preliminary toxicity data provided within 10 business days after the last day of exposure.- DRAFT report provided within 15 business days of end of last exposure.- Invoice will be dated and sent with DRAFT report. Terms net 60 days unless otherwise negotiated.				

American Aquatic Testing, Inc. – 890 North Graham St. – Allentown, PA 18109
610-434-9015 phone 610-434-2510 fax

TABLE I: Summary of Conditions for *Ceriodaphnia dubia* Toxicity Test

1.	Test type;	Whole effluent, static non-renewal
2.	Temperature;	25.0 +/- 1.0 ° C
3.	Light quality;	Wide-spectrum fluorescent illumination
4.	Light intensity;	50 - 100 foot-candles
5.	Photoperiod;	16 hours light, 08 hours dark
6.	Test chamber size;	200 mL high form borosilicate glass beakers
7.	Water volume;	100 mL
8.	Renewal;	None
9.	Age of test organisms;	<24 hours
10.	Number organisms / container;	5
11.	Replicates;	04
12.	Feeding;	Yeast, cereal leaves and trout pellets with <i>Selenastrum capricornutum</i> , 0.5 mL prior to test
13.	Aeration;	None
14.	Overlying water;	EPA moderately hard reconstituted water
15.	Test chamber cleaning;	Only if necessary
16.	Overlying water quality;	D. O., pH and temperature daily; alkalinity, conductivity and hardness at beginning and end of test
17.	Test duration;	48 hours
18.	Effects measured;	Survival
19.	Test acceptability;	Minimum control survival 80 %

TABLE II: Summary of Conditions for *Pimephales promelas* Toxicity Test

1.	Test type;	Whole effluent, static non-renewal
2.	Temperature;	25.0 +/- 1.0 ° C
3.	Light quality;	Wide-spectrum fluorescent illumination
4.	Light intensity;	50 - 100 foot-candles
5.	Photoperiod;	16 hours light, 08 hours dark
6.	Test chamber size;	1000 mL high form borosilicate glass beakers
7.	Water volume;	500 mL
8.	Renewal;	None
9.	Age of test organisms;	<14 days
10.	Number organisms / container;	10
11.	Replicates;	02
12.	Feeding;	<i>Artemia</i> nauplii prior to test
13.	Aeration;	None unless dissolved oxygen concentrations ≤ 40 % saturation, then ~ 100 bubbles / min.
14.	Overlying water;	EPA moderately hard reconstituted water
15.	Test chamber cleaning;	Only if necessary
16.	Overlying water quality;	D. O., pH and temperature daily; alkalinity, conductivity and hardness at beginning and end of test
17.	Test duration;	96 hours
18.	Effects measured;	Survival
19.	Test acceptability;	Minimum control survival 80 %

TABLE III: Summary of Conditions for *Chironomus dilutus* Toxicity Test

1.	Test type;	Whole sediment, static, daily renewal
2.	Temperature;	23.0 +/- 1.0 ° C
3.	Light quality;	Wide-spectrum fluorescent illumination
4.	Light intensity;	50 - 100 foot-candles
5.	Photoperiod;	16 hours light, 08 hours dark
6.	Test chamber size;	300 mL high form borosilicate glass beakers
7.	Sediment volume;	100 mL / replicate
8.	Overlying water volume;	175 mL / replicate
9.	Renewal;	2 volume exchanges per day
10.	Age of test organisms;	2 nd and 3 rd instar
11.	Number organisms / container;	10
12.	Replicates;	04
13.	Feeding;	4.0 mg/L flake fish food / day, as needed
14.	Aeration;	None unless dissolved oxygen concentrations ≤ 40 % saturation, then ~ 100 bubbles / min.
15.	Overlying water;	Laboratory reconstituted water
16.	Test chamber cleaning;	Only if necessary
17.	Overlying water quality;	D. O., pH and temperature daily; alkalinity, ammonia, conductivity, hardness & pH at beginning and end of test, D. O., pH and temp. daily on exchange water
18.	Test duration;	10 days
19.	Effects measured;	Percent survival and growth as AFDW
20.	Test acceptability;	Minimum control survival should be ≥70 %, Min. control mean dry weight should be at least 0.6 mg Min. control AFDW should be at least 0.48 mg

TABLE IV: Summary of Conditions for *Hyalella azteca* Toxicity Test

1.	Test type;	Whole sediment, static, daily renewal
2.	Temperature;	23.0 +/- 1.0 ° C
3.	Light quality;	Wide-spectrum fluorescent illumination
4.	Light intensity;	50 - 100 foot-candles
5.	Photoperiod;	16 hours light, 08 hours dark
6.	Test chamber size;	300 mL high form borosilicate glass beakers
7.	Sediment volume;	100 mL / replicate
8.	Overlying water volume;	175 mL / replicate
9.	Renewal;	2 volume exchanges per day
10.	Age of test organisms;	10-14 days
11.	Number organisms / container;	10
12.	Replicates;	04
13.	Feeding;	4.0 mg/L flake fish food / day, as needed
14.	Aeration;	None unless dissolved oxygen concentrations ≤ 40 % saturation, then ~ 100 bubbles / min.
15.	Overlying water;	Laboratory reconstituted water
16.	Test chamber cleaning;	Only if necessary
17.	Overlying water quality;	D. O., pH and temperature daily; alkalinity, ammonia, conductivity, hardness & pH at beginning and end of test, D. O., pH and temp. daily on exchange water
18.	Test duration;	10 days
19.	Effects measured;	Percent survival and growth as mean dry weight
20.	Test acceptability;	Minimum control survival should be ≥80 %,

**AMERICAN AQUATIC TESTING,
INCORPORATED
SUMMARY OF QUALIFICATIONS**

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Prepared by:

American Aquatic Testing, Incorporated

890 North Graham Street

Allentown, Pennsylvania, 18109

SECTION I

INTRODUCTION

INTRODUCTION

American Aquatic Testing, Inc., located in Allentown, Pennsylvania, is a full service environmental laboratory specializing in aquatic toxicology. Now in our 21st year, American Aquatic Testing, Inc. was established to provide support and expertise to a broad range of clients including; business, industry, utilities, municipal treatment facilities and the environmental consulting / engineering community.

Since 1993, our laboratory has been dedicated to the conduct of aquatic toxicology, sediment and soil toxicology and the environmental sciences. Our staff is fully qualified to design, conduct and interpret the sometimes complex biomonitoring / toxicity studies necessary in our increasingly complicated and diverse regulatory environment. We also have extensive experience with the regulatory requirements that affect our clients and are acutely aware of the importance of timely, high quality data. The QA/QC program at American Aquatic Testing, Inc. is specifically designed to generate accurate test results that our clients can depend on.

The requirements and regulations for environmental compliance are changing at a fantastic rate and American Aquatic Testing, Inc. has designed its facilities and services to be as flexible as possible to help our clients meet these new challenges.

COMPLIANCE CAPABILITIES

At American Aquatic Testing, Inc. our goal is to provide our clients with the most complete and up to date analysis available. Our staff is constantly in contact with those regulatory agencies responsible for biomonitoring policy to stay informed on the most recent changes to make sure our clients are never out of compliance.

American Aquatic Testing, Inc. provides a comprehensive range of biomonitoring services designed to meet the needs of the permitted community, including:

- * National Pollution Discharge Elimination System (NPDES) Acute and Chronic Studies for Federal and State regulatory programs
- * Toxicity Identification Evaluations - TIE
- * Toxicity Reduction Evaluations - TRE
- * Soil and sediment studies
- * Pure compound studies
- * Dredged material studies
- * Stream surveys
- * Wetland delineations
- * Oil and gas industry studies

SECTION II

LABORATORY QUALITY ASSURANCE PROGRAM

LABORATORY QUALITY ASSURANCE PROGRAM

The quality assurance program at American Aquatic Testing, Inc. has been developed to include the general QA/QC practices recommended by the United States Environmental Protection Agency, as well as the New Jersey Department of Environmental Protection, the Pennsylvania Department of Environmental Protection, the New York Department of Health, the New York Department of Environmental Conservation, and the Iowa Department of Natural Resources. The objective of this program is to provide valid, high quality data to a broad range of clients and their specific needs.

Major components of the quality assurance program include strict adherence to the criteria required by the sampling and analysis method, in addition to sampling chain-of-custody and procedural documentation. Regular instrument calibration and maintenance schedules are maintained, as well as an array of internal reference toxicant testing to track in-house organism cultures.

The details of various sampling, chain-of-custody methods are described completely in the American Aquatic Testing, Inc. Standard Operating Procedures manual, which is updated on a regular basis to remain current.

American Aquatic Testing, Inc. has a sample handling policy in effect that is dependent on the nature of the sample itself and the type of study involved. The sample may be archived, returned to the client, or disposed of according to the specifications of the study in question.

SECTION III

PERSONNEL QUALIFICATIONS

PERSONNEL QUALIFICATIONS

CHRISTOPHER J. NALLY B.S. MARINE SCIENCE

Laboratory Director, American Aquatic Testing, Incorporated

Mr. Nally has over 29 years of experience in all aspects of aquatic toxicology. During his tenure with several firms in the environmental consulting field, he has designed and implemented sampling plans, conducted stream surveys, ocean surveys, thermal surveys, and habitat evaluation. In the laboratory, Mr. Nally has extensive experience performing acute and chronic toxicity studies, soil and sediment toxicity studies, design and conduct of TIE and TRE investigations, dealing with both acute and chronic toxicity, including Phase I & II investigations for municipal and industrial clients, TSCA / FIFRA studies and pure compound testing for GLP compliance. He also possesses a wide range of experience in the design and fabrication of laboratories, laboratory systems, and test organism aquaculture systems. At American Aquatic Testing, Inc., Mr. Nally is responsible for daily and long term planning and operations of the laboratory, legal affairs, business development, report generation and client liaison, protocol and special studies development, quality assurance/quality control program officer and the generation and implementation of operating procedures.

TARMO PALLOP B.S. BIOLOGY

Laboratory Manager, American Aquatic Testing, Incorporated

Mr. Pallop has over 25 years of experience in the field of aquatic toxicology. He has been involved with all phases of acute and chronic toxicity studies, toxicity identification and evaluation studies, USACOE sediment studies, regulation interpretation, development and implementation of standard operating procedures and the in-house culture of all of the various species of vertebrates and invertebrates that American Aquatic Testing, Inc. uses for both freshwater and saltwater studies. Mr. Pallop is responsible for coordination and management of the acute, chronic, and field biomonitoring programs, including coordination of sampling and testing schedules and organism supply functions, data review and report generation, client and regulatory agency liaison services, and personnel acquisition, training and review. Duties also include management of and lead toxicologist on all sediment and soil toxicity testing and all pure compound studies, as well as all research and development of new toxicity testing methods and procedures.

MELISSA PALLOP
B.S. MARINE SCIENCE

Senior Laboratory Biologist, American Aquatic Testing, Incorporated

Ms. Pallop has over 16 years of experience in aquatic toxicology and aquaculture. She has conducted all phases of acute and chronic toxicity testing, as well as soil, sediment, algae, and pure compound testing. Ms. Pallop has conducted feed and growth studies for hybrid striped bass as well as daily fish culture including manipulation of fish populations, feeding, and physical chemistries. She has also assisted in upkeep and routine maintenance of a nursery facility. Ms. Pallop is responsible for overseeing NPDES biomonitoring testing, including chronic and acute testing, monthly standard reference toxicant tests for all in-house and purchased organisms, and quality assurance/quality control program officer and the generation and implementation of operating procedures. Additionally, her responsibilities include, laboratory supply inventory and purchasing and assisting in culture maintenance, particularly the *Eisenia foetida* (earthworm) cultures.

KERRI KOCH
B.S. BIOLOGY and B.S. ENVIRONMENTAL STUDIES

Senior Field Biologist/Laboratory Technician

Ms. Koch has nine years experience in aquatic toxicology testing. Ms. Koch has conducted all phases of acute and chronic toxicity testing, as well as sediment, algae and pure compound testing. She has also assisted in daily activities associated with in-house culture of vertebrate and invertebrate species used by AAT, Inc. for freshwater and saltwater studies. Ms. Koch is responsible for overseeing all field activities, including field sampling, sampler and vehicle maintenance, and field supply inventory, maintenance of sample receipt logs and sample storage areas. Additional responsibilities include, coordination and delivery of samples requiring chemical analysis, as well as upkeep of client contact and location information. Prior to coming to AAT Inc., Ms. Koch performed all phases of wet chemistry analysis on drinking and wastewater.

SECTION IV

PROJECT HISTORY

SPECIAL PROJECT EXPERIENCE

SEDIMENT & SOIL ANALYSIS

- ♦ During September, October and November 2003, samples of sediment were collected from the grounds of a former metals facility in southern New Jersey. The sediment samples from the site were evaluated for acute toxicity using a 20-day solid phase exposure with the chironomid *Chironomus tentans*, and 28-day solid phase exposure with the amphipod *Hyalella azteca*. The site was also evaluated for chronic toxicity using a 54-day solid-phase exposure using the larval chironomid *Chironomus tentans*, with endpoints for total survival, time to first emergence and total emergence. **This was the first ever chronic chironomid study requested by the New Jersey Department of Environmental Protection.**
- ♦ During the month of October 2013, 13 samples of sediment were collected at locations at a former New Jersey refinery property. The sediment samples from the site were evaluated for chronic toxicity using a 28-day solid phase exposure with the amphipod *Hyalella azteca* and a long-term solid phase exposure with the larval chironomid *Chironomus dilutus*. The endpoints used for the determination of any impacts were mortality, measured as mean percent survival, and growth, measured as ash-free dry weight, first emergence in days total emergence, and total survival.
- ♦ During November of 2009, 2010 and 2011, 2012 and 2013, 12 samples of sediment were collected from streams located on an active military installation in New Jersey. The sediment samples from the site were evaluated for chronic toxicity using a 28-day solid phase exposure with the amphipod *Hyalella azteca* and a 54-day solid phase exposure with the larval chironomid *Chironomus dilutus*. The endpoints used for the determination of any impacts were mortality, measured as mean percent survival, and growth, measured as mean dry weight, first emergence in days total emergence, and total survival.
- ♦ During the month of October 2009, samples of sediment were collected at locations along a major river in New Jersey as part of a Remedial Investigation/Feasibility Study (RI/FS) pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and

the Superfund Amendment and Reauthorization Act (SARA), as agreed to by the United States Environmental Protection Agency (USEPA). These sediment split-samples were evaluated for acute toxicity using a 10-day solid phase exposure with the salt water amphipod *Ampelisca abdita*, a 10-day solid phase exposure with the fresh water amphipod *Hyalella azteca* and a 10-day solid phase exposure with the larval chironomid *Chironomus dilutus*. The endpoints used for the determination of any impacts were mortality, measured as mean percent survival, and growth, measured as mean dry weight.

- ♦ During November and December 2010, 17 samples of fresh water sediment were collected from locations associated with industrial facilities in Ohio and New Jersey. The sediment chronic toxicity using a 28-day solid phase exposure with the amphipod *Hyalella azteca* and a 20-day solid phase exposure using the larval chironomid *Chironomus tentans*. The endpoints used for the determination of any impacts were mortality, measured as mean percent survival, and growth measured as mean dry weight.
- ♦ During August and September 2005, 27 samples of fresh water and estuarine sediment were collected from locations associated with a formerly used defense site (FUDS) in Edison, New Jersey. The sediment chronic toxicity using a 28-day solid phase exposure with the amphipod *Hyalella azteca* and a 20-day solid phase exposure using the larval chironomid *Chironomus tentans*. The endpoints used for the determination of any impacts were mortality, measured as mean percent survival, and growth measured as mean dry weight.
- ♦ During June, July and August 2004, samples of sediment were collected from streams associated with a formerly used defense site (FUDS) in Suffolk, Virginia. The sediment samples from the site were evaluated for acute toxicity using a 10-day solid phase exposure and for chronic toxicity using a 54-day solid phase exposure with the larval chironomid *Chironomus tentans*. The endpoints used for the determination of any impacts were mortality, measured as mean percent survival, and growth, measured as mean dry weight, first emergence in days total emergence, and total survival.

TIE PROJECT EXPERIENCE

- ♦ Design, implementation, and reporting on initial investigative work surrounding episodic acute toxicity at an Iowa industrial treatment facility using *Pimephales promelas* and *Ceriodaphnia dubia*. Phase I and partial Phase II TIE/TRE conducted in ongoing program to identify causative agent. **First investigation of its kind in Iowa.**
- ♦ Design, implementation, and reporting on initial investigative work surrounding episodic acute toxicity at a New Jersey sewage treatment plant using *Mysidopsis bahia*. Phase I and partial Phase II TIE conducted in ongoing program to identify causative agents.
- ♦ Investigated acute effluent toxicity from two Sequential Alkaline Producing Systems (SAPS) using *Ceriodaphnia dubia*. Preliminary results indicate the treatment systems are operating as designed and toxicity is a result of seasonal variations and aging of treatment systems. Partial Phase I conducted and is ongoing.
- ♦ Investigated acute and chronic effluent toxicity from a Pennsylvania sewage treatment plant. Preliminary results indicate ammonia toxicity is responsible for toxicity to *Pimephales promelas* (Fathead minnow) and Diazanon is responsible for toxicity to the cladoceran *Ceriodaphnia dubia*. Partial Phase I conducted and further work pending based on new permit requirements and new plant construction.
- ♦ Design, implementation, and reporting on initial investigative work surrounding episodic chronic toxicity at a Pennsylvania sewage treatment facility using *Pimephales promelas* and *Ceriodaphnia dubia*. Phase I and partial Phase II TIE/TRE conducted in ongoing program to identify causative agents, both chemical and pathogenic.

APPENDIX F

Biological and WSTT Assessment Proposal and Scope

Section 15.a.iii, Proposed future actions for 15.a.iii:

- 1. Please include a proposal for WET testing of collected water after remediation of the well pad is complete.**

Statoil is proposing to conduct a Whole Effluent Toxicity (WET) test of the water collected but not currently discharged from the pad drainage system after remediation is complete.

Type of Test: Statoil oil is proposing a static acute definitive WET test at 100%, 50%, 25%, 12.5%, and 6.25% by volume of test water.

Sample Collection: Representative composite samples will be collected from the water collected but not currently discharged from the pad drainage system.

Species Selection: Statoil is proposing to use fathead minnows (*Pimephales promelas*) and water fleas (*Ceriodaphnia dubia*), as recommended in Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition (USEPA, 2002) and as required by OEPA as representative of species in Ohio (OEPA, 1998).

Duration of Testing: Acute toxicity tests using *Ceriodaphnia dubia* will be 48 hours in duration. Acute toxicity tests using fathead minnows will be 96 hours in duration. Test organism survival and observations of behavior and external appearance shall be recorded every 24 hours at a minimum.

Accuracy: Test will be adequately replicated for a standard 0.05 alpha.

Testing Procedures: WET analysis will be conducted by a qualified WET laboratory utilizing the protocols specified in Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition (USEPA, 2002).

- 2. Please include specifics on biological assessment, i.e. number of locations, methodology, etc.**

- a. U.S. EPA recommends two sampling events: one this year and one next year for comparative purposes.**

Time Period: Seasonal variability of species composition is significant in streams in Ohio. In accordance with state-specific biological assessment guidelines and protocols by OEPA (OEPA, 1988; OEPA, 1998; OEPA 2009b), biosurvey sampling should be conducted during the summer collection period of June 15 through September 30 – October 15 for the most representative results. OEPA sampled Opossum Creek for the Sunfish Creek Watershed and Selected Ohio River Tributaries study on June 18, June 23, August 4, and August 12 of 2009 (OEPA, 2009c)

Statoil proposes to conduct all biological assessments early in the summer collection season 2015 with the second sampling to follow early in the summer collection season 2016. In order to sample within first and second year of the incident, Statoil specifically

is proposing to conduct the first in-stream biological assessment between June 15 and June 27, 2015, with the second conducted between June 15 and June 27, 2016. These dates are consistent with the first sampling dates by the OEPA for the two sites in Opossum Creek.

Locations: As recommended the biological assessment of Opossum Creek will be conducted at the same sample locations utilized by the Ohio EPA for the watershed study summarized in Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries (OEPA, 2009a). Specifically, sampling will be conducted at OEPA Site Number 13 (Opossum Creek, Beautiful Ridge Road, River Mile 22.2) at 39.7211000° N Latitude, 80.87860000° W Longitude, and at OEPA Site Number 14 (Opossum Creek, Ust Gilmore Run, River Run Mile 24) at 39.7261230° N Latitude, 80.8591640° W Longitude (See attached Figure #1: Sampling Point Location Map).

Methodology: Biological assessments of Opossum Creek and the unnamed tributary to Opossum Creek will be conducted cost-effectively utilizing US EPA accepted protocols and guidelines, adapted to state-specific procedures and guidelines. All procedures, methods, & protocols will be selected and conducted so as to most accurately capture the biological condition of these waterways, and to most accurately characterize the existence and severity of any impairments to the water resource.

b. *U.S. EPA recommends including benthic macroinvertebrates as part of the biological assessment.*

Statoil agrees to include benthic macroinvertebrates as part of the biological assessment of Opossum Creek and the unnamed tributary to Opossum Creek.

c. *U.S. EPA recommends using methods and sample locations utilized by OEPA for comparison to historical data. These can be found in OEPA's November 2010 Report "Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries"*

Sample Locations: As noted in response a., above, as recommended, Statoil will be conducting the in-stream biological assessments at the same sample locations utilized by the Ohio EPA for the watershed study summarized in Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries (OEPA, 2009a). (See attached Figure #1: Sampling Point Location Map)

Methods: Pursuant to personal correspondence with Andrew Phillips, Ohio EPA, Ecological Assessment Section, Groveport, OH, the methods utilized by OEPA for the Sunfish Creek Watershed and Selected Ohio River Tributaries study are the OEPA Biological Criteria for the Protection of Aquatic Life: Volume II: Users Manual for

Biological Field Assessment of Ohio Surface Waters, (October 30, 1987, updated January 1, 1988, as amended), and the OEPA Biological Criteria for the Protection of Aquatic Life: Volume III: Standard Biological Field Sampling and Laboratory Methods for Assessing Fish and Macroinvertebrate Communities, (first update September 30, 1989, as amended). Because the 2009 addenda to these methods are no longer available, Statoil proposes to utilize these methods, as amended by the 2014 addenda. These field sampling methods are available for download at <http://www.epa.ohio.gov/dsw/bioassess/BioCriteriaProtAqLife.aspx>. More specific sample methods for the Sunfish Creek Watershed and Selected Ohio River Tributaries study are not available.

Statoil proposes to utilize the biological sample methods utilized by OEPA for their Sunfish Creek Watershed and Selected Ohio River Tributaries study, as referenced above.

3. ***U.S. EPA recommends Whole Sediment Toxicity Testing be conducted at 2-3 locations with one potentially being a background location and the others including locations where TTPC was observed in Opossum Creek and/or the unnamed tributary to Opossum Creek at the highest concentrations.***

As recommended, Statoil proposes Whole Sediment Toxicity Testing (WSTT) of sediments to be collected at 3 locations within Opossum Creek and/or the unnamed tributary to Opossum Creek.

Test Sample Site Locations: As recommended, test site selection will be targeted towards the locations where TTPC were observed in Opossum Creek and/or the unnamed tributary to Opossum Creek at the highest concentrations. TTPC was detected above quantitation limit at twelve locations within Opossum Creek, within the unnamed tributary to Opossum Creek, and within the Ohio River downstream of the confluence of Opossum Creek. See Table 6, below for a summary of highest detected concentrations above quantitation limit for all surface water locations. The highest concentrations of TTPC detected in Opossum Creek and the unnamed tributary to Opossum Creek were detected at locations SW21 (in water and sediment) and SW04 (in water). As such, Statoil proposes to conduct Whole Sediment Toxicity Testing at Location SW21 within the unnamed tributary to Opossum Creek and SW04 within Opossum Creek downstream of the confluence with the unnamed tributary to Opossum Creek (See Figure #2: Proposed WSTT Location Map).

Table 6
Summary of Detected TTPC Concentrations Above Quantitation Limit

Location ID	Coordinates (NAD83)	Highest Detected TTPC Concentration (sample type)	Date Collected (dd-mmm-yr)
SW01	-80.8993, 39.697544		
SW02	-80.89826, 39.69665		
SW03	-80.89889, 39.69609	5.69 ug/L (water)	17-Jul-14
SW04	-80.88783, 39.71111	25.6 ug/L (water)	17-Aug-14
SW06	-80.904053, 39.694565	8.85 ug/L (water) 644 ug/kg (sediment)	19-Aug-14 10-Jul-14
SW07	-80.870556, 39.762909	5.25 ug/L (water)	15-Jul-14
SW08	-80.85215, 39.73866		
SW09	-80.84044, 39.72792	19.6 ug/L (water)	18-Jul-14
SW10	-80.86101, 39.66869		
SW11	-80.88822, 39.71075		
SW12	-80.89769, 39.71466		
SW14	-80.88356, 39.71267		
SW15	-80.879669, 39.72037	9.16 ug/L (water)	15-Jul-14
SW16	-80.8259, 39.70961	8.71 ug/L (water)	18-Jul-14
SW17	-80.90658, 39.70291	12.3 ug/L (water)	17-Jul-14
SW18	-80.90309, 39.71019	3.97 ug/L (water)	19-Aug-14 10-Jul-14
SW19	-80.90380, 39.69405		
SW20	-80.896999, 39.714	9.72 ug/L (water) 413 ug/kg (sediment)	07-Sep-14 14-Aug-14
SW21	-80.903626, 39.69431	31.6 ug/L (water) 1320 ug/kg (sediment)	18-Jul-14 10-Jul-14
SW22	-80.870556, 39.762909		
SW23	-80.90385, 39.69411	18.3 ug/L (water)	13-Aug-14
SW24	-80.90117, 39.698096		
SW25	-80.90477, 39.69654		

Control Sample Site Location: As recommended a background, control site will be selected within Opossum Creek, upstream of the confluence of the unnamed tributary to Opossum Creek with Opossum Creek. The exact location of upstream background, control sample location will be selected on-site to be similar enough to the Test Sites to have similar biological expectations to minimize natural inter-site variability. The location of the Control Sample Site will be located using GPS (sub-meter accuracy).

Sample Collection: Representative composite, sediment samples will be collected from each Sample Site. Samples will be collected from depositional areas of fine grain material (silts and clays), which typically are represented by higher contaminant levels, compared to sands and gravels. All sediment sampling will occur within the stream bed in areas along the stream bank, which are represented by sparse deposits of fine grain material, within a 15-meter reach centered on mapped Site Location.

Site Documentation: Basic stream characteristics of each Sample Site will be recorded on Physical Characterization/Water Quality and Habitat Assessment Field Data Sheets, in accordance with the procedures specified in Rapid Bioassessment Protocols For Use in Streams and Wadeable Rivers, 2nd Edition (USEPA, 1999).

Species Selection: In accordance with Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates, 2nd Edition (USEPA, 2000), two organisms will be used for testing, the amphipod *Hyalella azteca* and the midge *Chironomus tentans*.

Duration of Testing: Statoil proposes a 10-day Sediment Toxicity Test of the sediments collected from Opossum Creek and/or the unnamed tributary to Opossum Creek.

Accuracy: Test will be adequately replicated for a standard 0.05 alpha.

Testing Procedures: Whole Sediment Toxicity Testing will be conducted by a qualified laboratory utilizing the protocols specified in Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates, 2nd Edition (USEPA, 2000).

Literature Cited:

OEPA, 1988 – Biological Criteria for the Protection of Aquatic Life: Volume II: Users Manual for Biological Field Assessment of Ohio Surface Waters, Ohio Environmental Protection Agency, Ecological Assessment Section, Division of Water Quality, Columbus, Ohio (October 1987, Updated January 1, 1988).

OEPA, 1998 – Reporting and Testing Guidance for Biomonitoring Required by the Ohio Environmental Protection Agency (v 5 Final), Ohio Environmental Protection Agency, Division of Surface Water, Columbus, Ohio (July 1, 1998).

OEPA, 2009a – Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries (DSW/EAS 2010-4-3), Ohio Environmental Protection Agency, Southeast District Office, Ecological Assessment Section, Groveport, Ohio (2009).

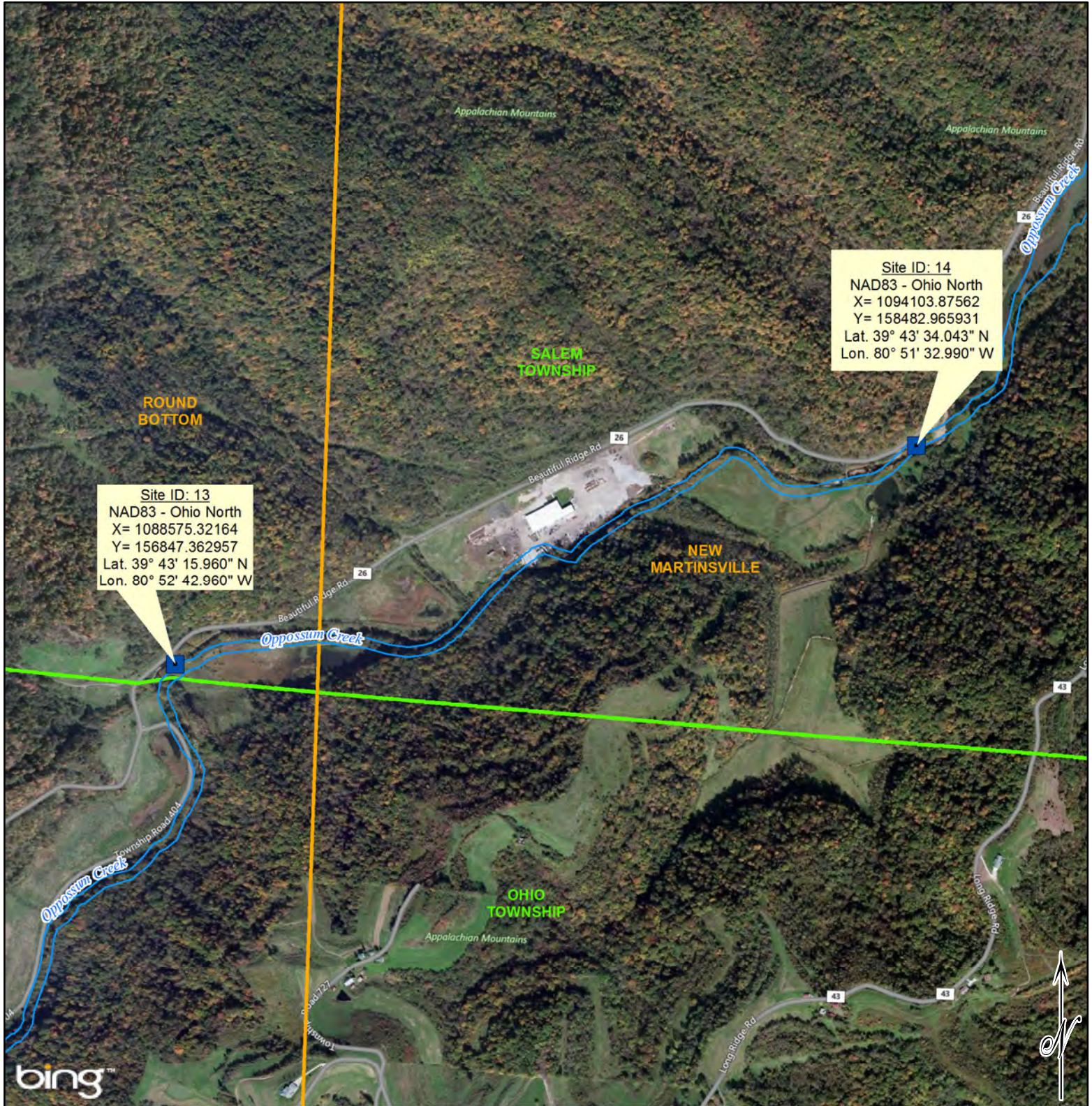
OEPA, 2009b – Field Evaluation Manual for Ohio’s Primary Headwater Habitat Streams, Ohio Environmental Protection Agency, Division of Surface Waters, Columbus, Ohio (October 2009).

OEPA, 2009c – Appendices to Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries (DSW/EAS 2010-4-3), Ohio Environmental Protection Agency, Southeast District Office, Ecological Assessment Section, Groveport, Ohio (2009).

USEPA, 1999 – Rapid Bioassessment Protocols For Use in Streams and Wadeable Rivers, 2nd Edition by Barbour, M.T., J. Gerritsen, B.D. Snyder, and J.B. Stribling, US Environmental Protection Agency, Washington, DC (1999).

USEPA, 2000 – Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates, 2nd Edition, US Environmental Protection Agency, Washington, DC (March 2000).

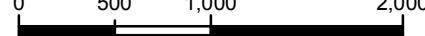
USEPA, 2002 – Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition, US Environmental Protection Agency, Washington, DC (October 2002).



LEGEND

- Biological Assessment Sampling Point
- Stream
- Quadrangle
- Township

Scale:



Map References:

- Sampling locations retrieved by Ohio Environmental Protection Agency, Division of Surface Water, November 2010.
- USGS 7½ Minute Quadrangle New Martinsville and Round Bottom, Ohio
- Base Layer Image courtesy of USGS Earthstar Geographics SIO © 2014 Microsoft Corporation © 2014 Nokia © AND

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FIGURE #1: SAMPLING POINT LOCATION MAP

Biological and Water Quality Study of the Sunfish Creek Watershed and Selected Ohio River Tributaries

Salem and Ohio Township, Monroe County, Ohio

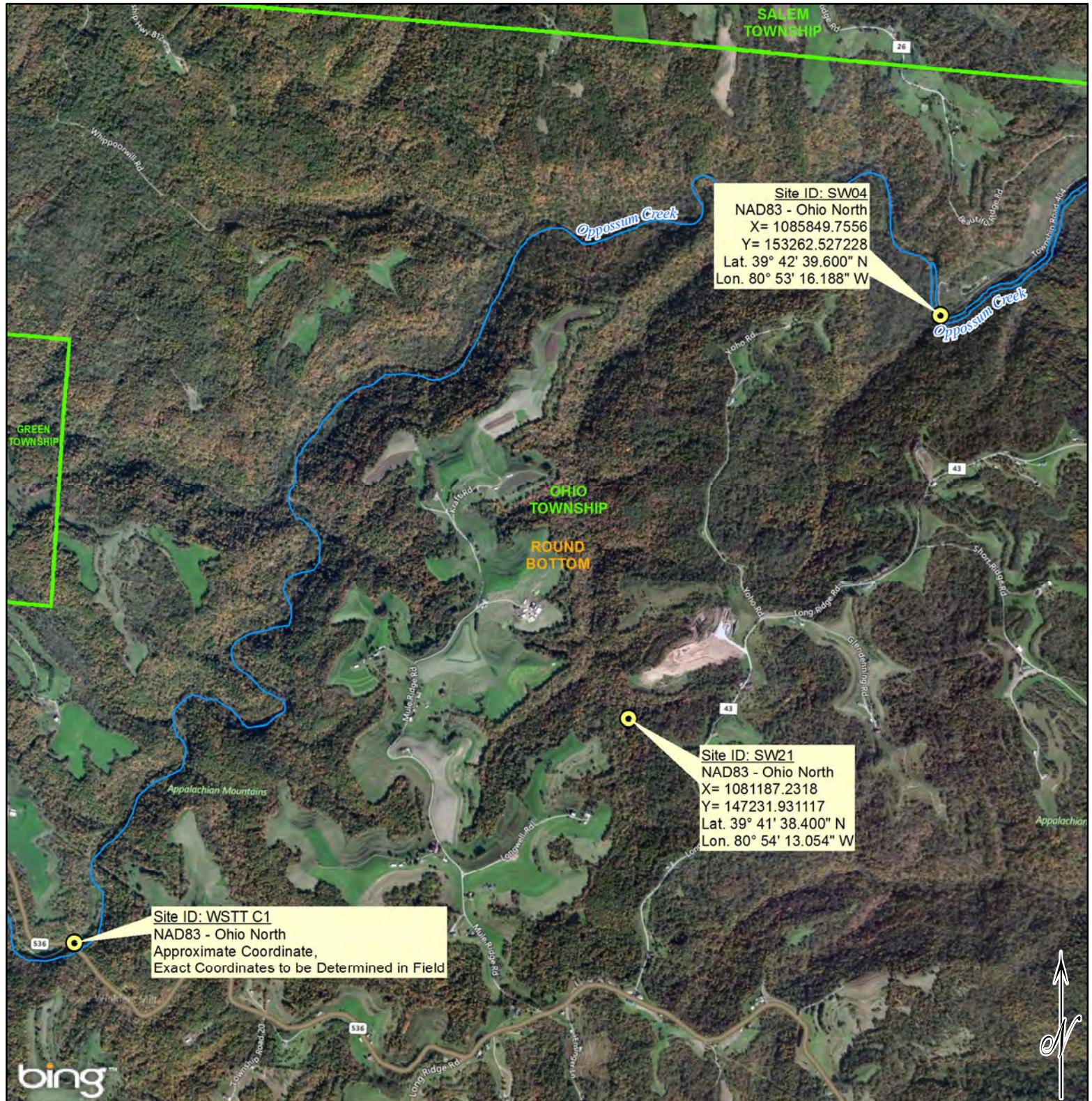
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Prepared for :



199 Johnson Road
Building 2, Suite 101
Houston, PA 15342
Office: (724) 746-5200
Fax: (724) 746-5603
www.moody-s.com



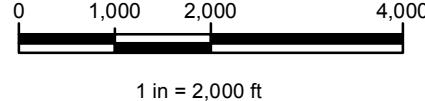


bing™

LEGEND

- Whole Sediment Toxicity Testing Point
- Stream
- Quadrangle
- Township

Scale:



Map References:

- Sampling locations retrieved by Ohio Environmental Protection Agency, Division of Surface Water, November 2010.
- USGS 7½ Minute Quadrangle Round Bottom, Ohio
- Base Layer Image courtesy of USGS Earthstar Geographics SIO © 2014 Microsoft Corporation © 2014 Nokia © AND

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FIGURE #2: WSTT LOCATION MAP

Whole Sediment Toxicity Testing

Ohio Township, Monroe County, Ohio

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199 Johnson Road
Building 2, Suite 101
Houston, PA 15342
Office: (724) 746-5200
Fax: (724) 746-5603
www.moody-s.com

